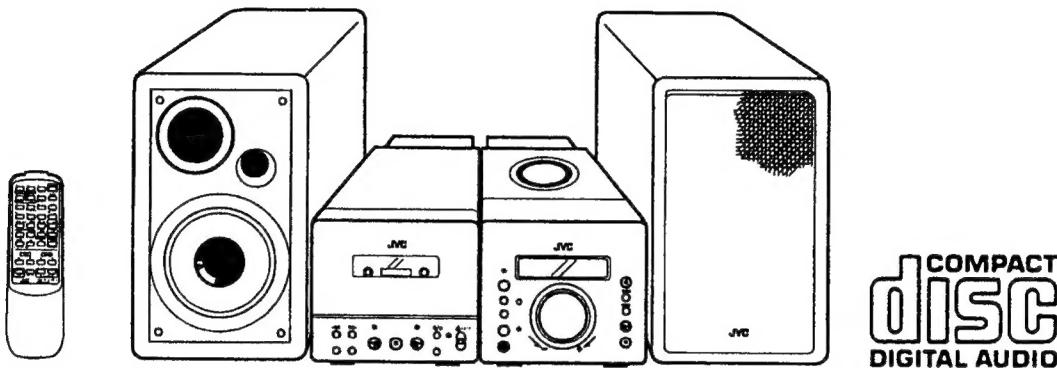


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX- D88 GD B/E/EN/G



Area Suffix

B	U.K.
E	Continental Europe
EN	North Europe
G	Germany

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1. Safety Precautions

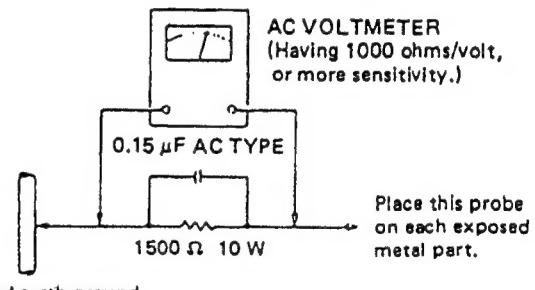
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re- assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet, using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

 **CAUTION**

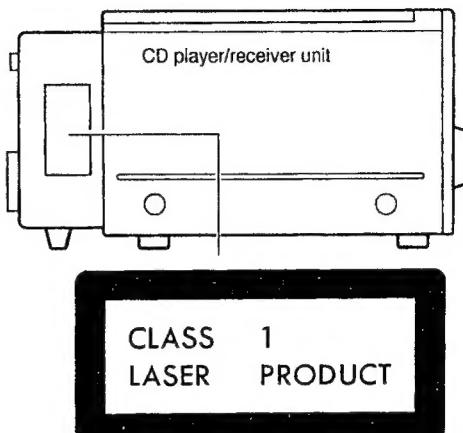
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

2. Safety Precaution about UX - D88

IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



Caution:
This production contains a leaser component of higher laser class than Class1.

IMPORTANT (In the United Kingdom)

Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

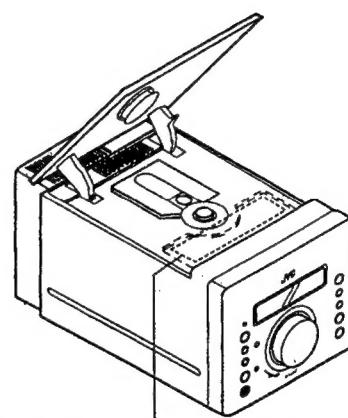


As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

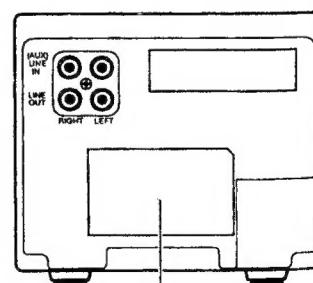
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

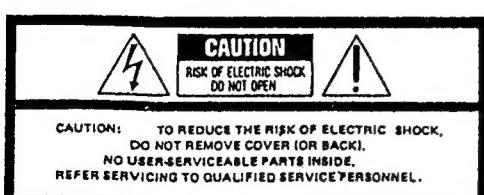
IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åpning, når sikkerhedsafbrydere er ute av funktion. Undgåd utsættelse for stråling. (d)	WARNING: Osynlig laserstråling när denna del är öppnad och spärren är urkopplad. Beträkta ej strålen. (s)	VARO: Avattaessa ja suojailemassa olet aittina näkymätömälle lasersäteilylle. Älä katso sääteen. (f)
--	---	---	--



Name/Rating plate



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ Important management points regarding safety (Item demanding special safety precautions)

1. Power transformer marking : VTP09J2-12B

The torque of the screw driver for the power transformer must be controlled.

2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.

The AC socket must not float from print circuit board.

•Marking HSC0528

3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

4. Before installation confirm the fuse capacity indication, ()marks on the fuse holder. (B ONLY)

REF.NO	Capacity and mark	Indication on P.C.board
F1901	T630mA	T630mA
F1902	T8A	T8A

5. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.

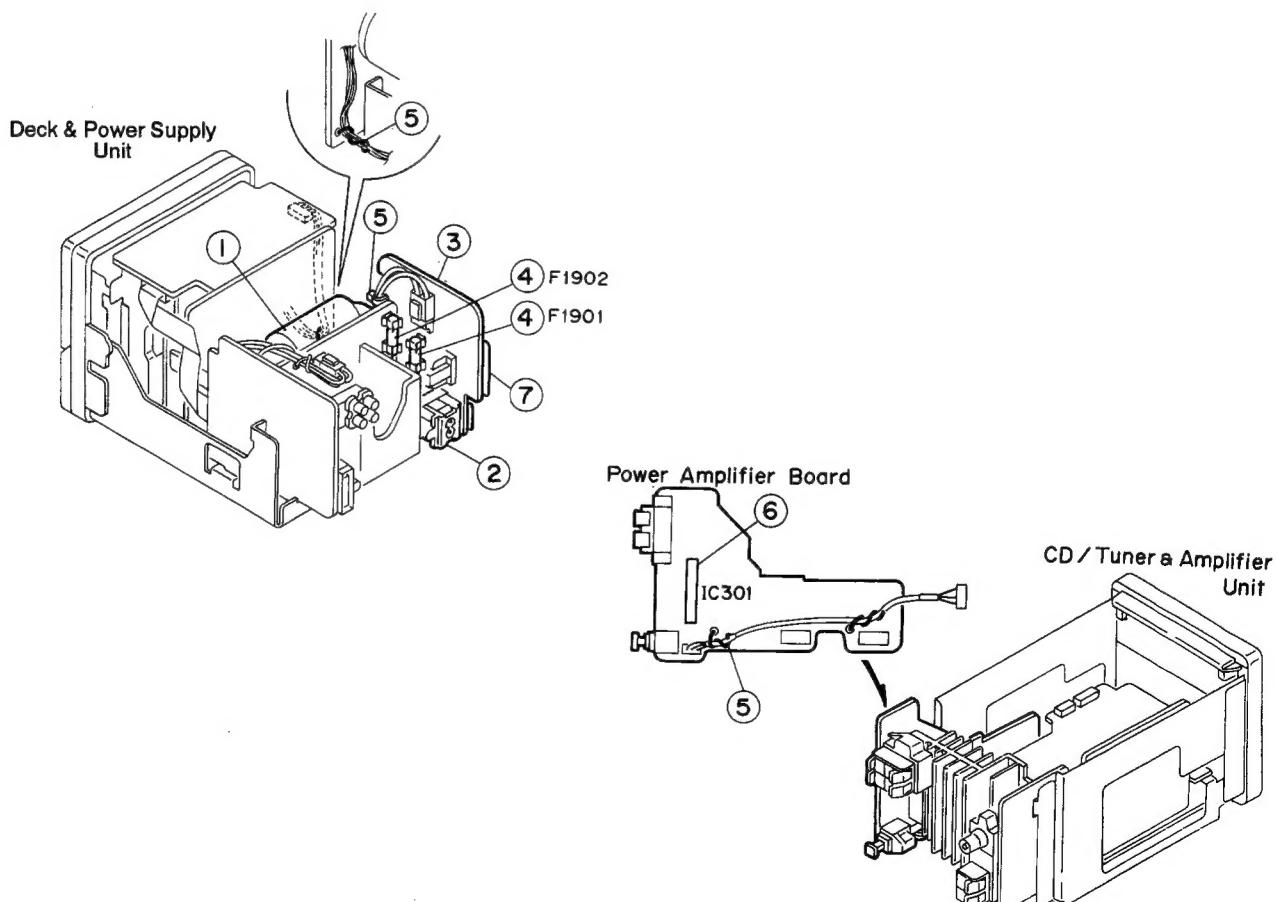
6. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up .

• IC : (IC301), Transistor : Q7901 , Resistor : R3104, R3204, R3105, R3205, R1909, R355, R356

7. Primary pattern must be covered by barrier.

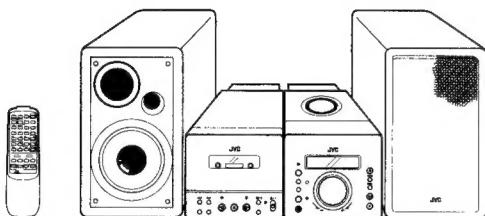
8. Confirm following EMC (Electromagnetic Compatibility)control matter.

Control parts , and Control work (Symbol number) TU1 , CF1, CF2 (Tuner board)



JVC

MICRO COMPONENT SYSTEM
SISTEMA DE MICROCOMPONENTES
SISTEMA A MICROCOMPONENTI

UX-D88 E

COMPACT
DISC
 DIGITAL AUDIO

INSTRUCTIONS

INSTRUCCIONES
MANUALE DIISTRUZIONI

3. Instructions**ENGLISH**

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.

**CONTENTS**

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ESPAÑOL**ITALIANO**

Le agradecemos la adquisición de este producto de JVC. Por favor lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

Grazie per avere acquistato questo prodotto JVC. Si prega di leggere queste istruzioni con attenzione prima dell'uso per essere certi di ottenere prestazioni ottimali ed una lunga durata dell'unità.

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WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**IMPORTANT FOR LASER PRODUCTS**

PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The CD player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder or CD tray is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

IMPORTANT PARA PRODUCTOS LASER

PRECAUCIONES

1. PRODUCTO LASER DE CLASE 1
2. **PERICOLO:** Radiazione laser invisibile quando si apre, falla o se desactiva el enclamamiento. Evite la exposición directa al rayo.
3. **PRECAUCIÓN:** No abra la cubierta trasera. Dentro de la unidad no hay componentes que el usuario pueda reparar; deje toda reparación al personal de servicio cualificado.
4. **PRECAUCIÓN:** El reproductor de CD utiliza radiación láser invisible y está equipado con interruptores de seguridad que evitar la emisión de radiación cuando se abre el portadisco de CD o compartimiento del CD. Es peligroso desactivar los interruptores de seguridad.
5. **PRECAUCIÓN:** La utilización de los controles de ajuste y de procedimientos que no estén especificados aquí, puede resultar en exposición a radiación peligrosa.

IMPORTANTE PARA PRODUCTOS LASER**PRECAUCIONES**

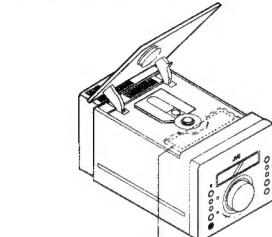
1. **PRODUTTO LASER DI CLASSE 1**
2. **PERICOLO:** Quando l'apparecchio è aperto ed i dispositivi di sicurezza non funzionano o sono stati disattivati, vengono prodotte invisibili radiazioni laser. Evitare l'esposizione diretta al raggio.
3. **ATTENZIONE:** Non aprire la copertura posteriore. All'interno dell'unità non vi sono parti che possono interessare l'utente; fare eseguire qualsiasi intervento a personale di assistenza qualificato.
4. **ATTENZIONE:** Il lettore CD utilizza radiazioni laser invisibili ed è fornito di interruttori di sicurezza per evitare l'emissione di tali radiazioni quando il piatto del CD è aperto. Non escludere tali interruttori di sicurezza in quanto ciò è pericoloso.
5. **ATTENZIONE:** L'uso di comandi e procedure diversi da quanto specificato possono risultare nell'esposizione a radiazioni pericolose.

AVVERTENZA:
NON ESPORRE L'APPARECCHIO A PIOGGIA O UMIDITÀ ONDE RIDURRE I RISCHI DI FIAMME O SCOSSE ELETTRICHE.

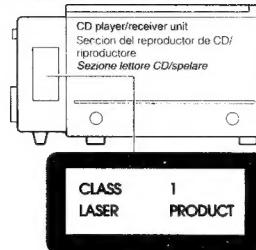
Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/06/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

IMPORTANTI PRECAUZIONI PER PRODOTTI LASER

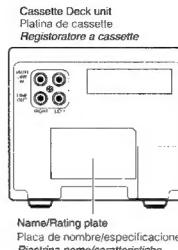
REPRODUCTION OF LABELS AND THEIR LOCATION



REPRODUCCION DE ETIQUETAS Y SU UBICACION

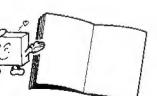


ETICHETTE E LORO POSIZIONE

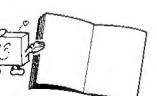


FEATURES

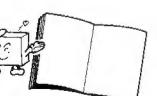
- CD-size micro component system consisting of 4 units
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- Dynamic axial-drive woofer
- One-touch operation (COMPU PLAY)
- 36-key remote control unit operates all CD, cassette deck and tuner functions
- Multi-function CD player
- Programmed play of up to 20 tracks
- Repeat Play
- Random Play
- U-Turn auto-reverse full-logic mechanism with Dolby® B NR
- Auto tape select mechanism
- Metal (type IV) and CrO2 (type II) tape can be played back for superior tone quality
- CrO2 (type II) tape recording capability
- Music scan in forward or reverse direction
- 2-band digital synthesizer tuner with 45-station (30 FM and 15 AM (MW/LW)) preset capability
- Seek/manual tuning
- Auto preset tuning
- Timer/Clock function
- Timer on/off with preset volume function
- Sleep timer can be set for up to 120 minutes
- Optical digital output

Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CARACTERISTICAS

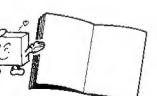
- Sistema de microcomponentes del tamaño de un CD, consistente de 4 unidades
- Circuito Active Hyper-Bass PRO para reproducción sónica de baja frecuencia
- Altavoz de graves con excitador axial dinámico
- Operación de un solo toque (COMPU PLAY)
- Unidad de control remoto con 36 teclas para operación del CD, platina de cassette y funciones del sintonizador
- Reproductor de CD con funciones múltiples
- Reproducción programada hasta 20 pistas
- Repetición de reproducción
- Reproducción aleatoria
- Mecanismo de lógica completa inversión automática en U con Dolby® B NR
- Mecanismo de selección automática de cinta
- Para obtener una calidad de tono superior es posible utilizar cintas de metal (tipo IV) y de CrO2 (tipo II)
- Capacidad para grabación de cintas de CrO2 (tipo II)
- Búsqueda de músicas hacia adelante o hacia atrás
- Sintonizador sintetizador digital de 2 bandas con capacidad para presintonización de 45 estaciones (30 de FM y 15 de AM (OM/OL))
- Sintonización búsqueda/manual
- Sintonización programada automática
- Función de temporizador/elej
- Activación/desactivación del temporizador con función de volumen preajustado
- El temporizador despertador puede ser programado hasta un máximo de 120 minutos
- Salida digital óptica
- Reductor de ruido Dolby fabricado bajo licencia de Dolby Laboratories Licensing Corporation. La palabra "Dolby" y el símbolo  son marcas registradas de Dolby Laboratories Licensing Corporation.

CARATTERISTICHE

- Sistema a microcomponenti formato CD composto da 4 unità
- Circuito Active Hyper-Bass PRO di nuova concezione per la riproduzione delle basse frequenze
- Woofer Dynamic Axial-Drive
- Funzionamento ad un tocco (COMPU PLAY)
- L'unità di telecomando con 36 tasti controlla tutte le funzioni del lettore CD, del registratore a cassette e del sintonizzatore
- Lettore CD multifunzione
- Riproduzione programmata di fino a 20 brani
- Riproduzione ripetuta
- Riproduzione aleatoria
- Riproduzione casuale
- Mecanismo U-Turn di inversione automatica completamente logico con sistema antirumore Dolby® B NR.
- Mecanismo per la selezione automatica del tipo di nastro
- Possono essere riprodotti nastri Metal (tipo IV) e CrO2 (tipo II) che forniscono una migliore qualità musicale
- Capacità di registrazione su nastri CrO2 (tipo II)
- Funzione di scansione dei brani in ambedue le direzioni
- Sintonizzatore sintetizzatore digitale a 2 bande con capacità di preselezione di fino a 45 stazioni (30 di FM e 15 di AM (MW/LW))
- Sintonizzazione con ricerca/manual
- Funzione timer/orologio
- Funzione di attivazione e disattivazione via timer con preimpostazione del volume
- Il timer per lo spegnimento automatico può essere impostato per fino a 120 minuti
- Uscita digitale ottica
- Sistema di riduzione del rumore fabbricato su licenza della Dolby Laboratories Licensing Corporation. La parola "Dolby" ed il simbolo  sono marchi registrati della Dolby Laboratories Licensing Corporation.

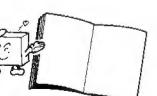
SAFETY PRECAUTIONS

Prevention of Electric Shocks, Fire Hazards and Damage

- Even when the  button is set to STANDBY a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.

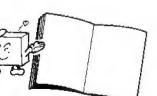
PRECAUCIONES DE SEGURIDAD

Prevención de choques eléctricos, peligro de incendio y daños

- Aunque el botón de alimentación  esté colocado en espera STANDBY, fluye una pequeña corriente eléctrica. Para ahorrar energía y por seguridad cuando no se utiliza esta unidad durante un largo período, desconecte el cordón eléctrico del tomacorriente de CA.

PRECAUZIONI PER LA SICUREZZA

Prevenzione di scosse elettriche, fiamme e danni

- Anche quando l'interruttore  si trova sulla posizione STANDBY, una piccola quantità di corrente continua fluisce. Per risparmiare energia e per ragioni di sicurezza, quando non si utilizza questa unità per un periodo prolungato, staccare il cavo di alimentazione dalla presa di corrente CA quando si prevede di non utilizzarla per un periodo prolungato.

- No handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
- Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
- Do not bend the cord severely, or pull or twist it.
- Do not modify the power cord in any manner.
- To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
- Do not insert any metallic objects into the unit.
- Unplug the power cord when there is a possibility of lightning.
- If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
- Do not block the unit's ventilation holes that allow heat to escape.
- Do not install the unit in a badly ventilated place.
- Since this unit uses a motor-driven CD holder or CD tray, make sure that your hand or other object does not obstruct holder or tray movement.
- Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
- No inserte ningún objeto metálico dentro de la unidad.
- Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
- Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
- No bloquee los orificios de ventilación de la unidad que permiten el escape de calor.
- No instale la unidad en un lugar mal ventilado.
- Como esta unidad utiliza un portadisco o una bandeja de CD motorizado, asegúrese de que su mano u otro objeto no obstruya el movimiento del mismo.

 button

When the power cord is connected to a household AC outlet, the power indicator lights in red indicating the STANDBY mode. When the  button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the  button is set to STANDBY.

Caution: Proper Ventilation

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

- Front:
No obstructions and open spacing.
- Sides/Top/Back:
No obstructions should be placed in the areas shown by the dimensions below.
- Bottom:
Place on a level surface. Maintain an adequate air path for ventilation by placing on a table with a height of 10 cm or more.

Precaución: Ventilación correcta

Para evitar riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:

- Parte frontal:
Sin obstrucciones, espacio abierto.
- Lados/Parte superior/Parte posterior:
Nadie debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
- Parte inferior:
Síntese el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre una mesa de 10 o más cm de altura.

- Non maneggiare il cavo di alimentazione con le mani bagnate.

- Per scollegarsi dalla presa di rete, afferrare sempre la spina e non il cavo dell'alimentazione.

- Consultare il rivenditore più vicino quando il cavo è danneggiato, scollegato o con contatti scadenti.

- Non piegare eccessivamente il cavo, non tirarlo e non forzarlo.

- Non modificare il cavo di alimentazione in alcun modo.

- Per evitare incidenti, non rimuovere viti per smontare l'unità e non toccare alcun componente interno.

- Non inserire alcun oggetto metallico nell'unità.

- Scollegare il cavo di alimentazione durante temporali con fulmini.

- Se dell'acqua dovesse penetrare all'interno dell'unità, scollegare il cavo dell'alimentazione dalla presa di rete e consultare il proprio rivenditore.

- Non bloccare i fori per la ventilazione dell'unità che permettono la dissipazione del calore.

- Non installare l'unità in un luogo con ventilazione eccessiva.

- Dato che questa unità utilizza un portadisco o caricatore di CD motorizzato, accertarsi di non ostruire il movimento con una mano o un oggetto.

Interruttore di accensione ()

Quando il cavo di alimentazione è collegato con una presa di rete CA, l'indicatore dell'alimentazione si illumina in rosso per indicare il modo STANDBY. Quando premete il tasto , l'indicatore dell'alimentazione si spegne ed il display si illumina.

Quando questa unità è collegata ad una presa di corrente CA, essa consuma una piccola quantità di corrente per il funzionamento del telecomando e del timer o per il mantenimento della memoria del microprocessore anche quando il tasto  è impostato su STANDBY.

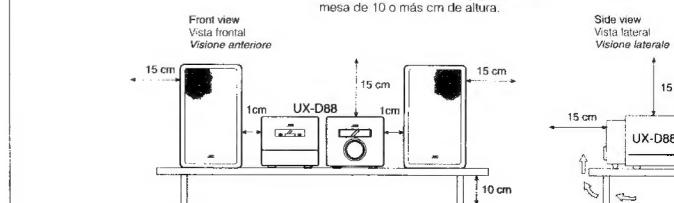
Attenzione: Ventilazione corretta

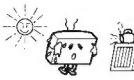
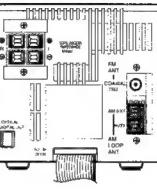
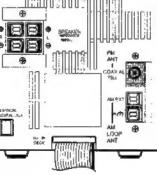
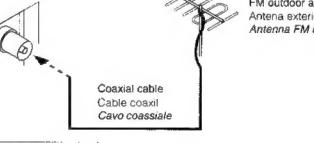
Per evitare rischi di scosse elettriche e fiamme, installare l'apparecchio come indicato di seguito:

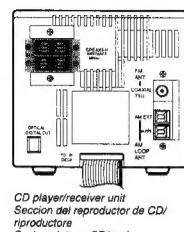
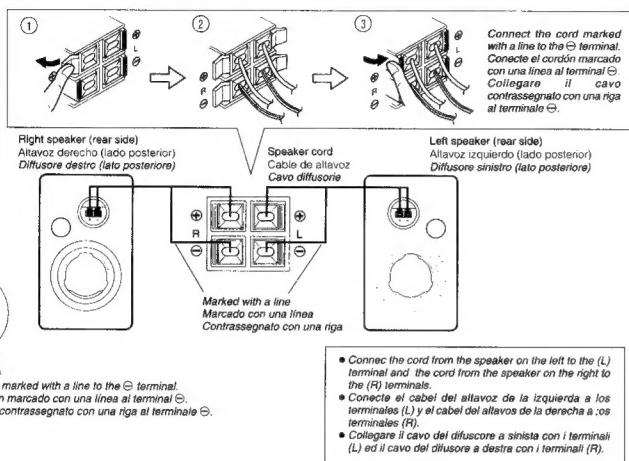
- Lato anteriore:
Nessun ostacolo e spazio aperto.

- Lati sinistro e destra/superiore/posteriore:
Nessun ostacolo deve essere posto nell'area indicata dalle dimensioni riportate in basso.

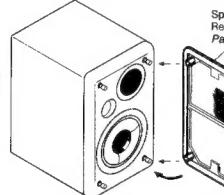
- Fondo:
Posizionare su di una superficie a livello. Mantenere un percorso adeguato per la ventilazione utilizzando una tavola con un'altezza di 10 cm o più.



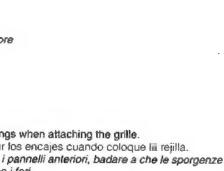
HANDLING PRECAUTIONS	PRECAUCIONES DE MANIPULACION	PRECAUZIONI PER L'USO	CONNECTIONS	CONEXIONES	COLLEGAMENTI
 <p>Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).</p> <p>1. Avoid installing in the following places</p> <ul style="list-style-type: none"> Where it could be subject to vibrations. Where it is excessively humid, such as in a bathroom. Where it could be magnetized by a magnet or speaker. <p>2. Pay attention to dust</p> <p>Be sure to close the CD holder or CD tray so that dust does not collect on the lens.</p> <p>3. Condensation</p> <p>In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.</p> <ul style="list-style-type: none"> In a room where a heater has just been switched on. In a place where there is smoke or high humidity. When the unit is moved directly from a cold to a warm room. <p>In these cases, set the I / O button to STANDBY and wait 1 or 2 hours before use.</p> <p>4. Volume setting</p> <p>CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during play.</p> <p>5. Safety mechanism</p> <p>This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD holder or CD tray is open, the laser beam stops automatically.</p> <p>6. Do not place cassette tapes, etc. near the speakers</p> <p>Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.</p> <p>7. Keep this unit away from your TV</p> <p>When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.</p> <p>8. Cleaning the cabinet</p> <p>If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.</p> <p>9. When listening with headphones</p> <ul style="list-style-type: none"> Do not listen at high volumes as this could damage your hearing. 	 <p>No utilice esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C.</p> <p>1. Evite instalar en los siguientes lugares</p> <ul style="list-style-type: none"> Donde pueda ser sujeta a vibraciones. Donde haya humedad excesiva, tal como en un cuarto de baño. Donde pueda ser magnetizada por un imán o altavoz. <p>2. Preste atención al polvo</p> <p>Asegúrese de cerrar el portadisco o compartimiento de CD para que el polvo no se deposite sobre la lente. No toque la lente.</p> <p>3. Condensación</p> <p>En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia la unidad no funcionará correctamente.</p> <ul style="list-style-type: none"> En una sala donde haya un calentador encendido. En un lugar donde haya humo o gran humedad. Cuando se traslada rápidamente la unidad de una sala fría a una templada. En estos casos, coloque el botón I / O en STANDBY (conectado) y espere 1 o 2 horas antes de utilizarla. <p>4. Ajuste del volumen</p> <p>Los productos de CD producen muy poco ruido comparados con las fuentes analógicas. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajustelo como deseó durante la reproducción.</p> <p>5. Mecanismo de seguridad</p> <p>Esta unidad posee un mecanismo de enclamamiento de seguridad que apaga y enciende el rayo láser de tal manera que cuando se abre el portadisco o compartimiento de CD, el rayo láser se apaga automáticamente.</p> <p>6. Non posare nastri a cassetta, ecc., in prossimità dei diffusori</p> <p>Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.</p> <p>7. Tenere l'unità lontana dal televisore</p> <p>Quando questa unità viene utilizzata in prossimità di un televisore, l'immagine TV potrebbe venire distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare le interferenze, evitare di utilizzare questa unità quando il televisore è acceso.</p> <p>8. Pulizia dell'esterno dell'unità</p> <p>Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto.</p> <p>Non usare mai benzina o diluente in quanto essi possono danneggiare la finitura delle superfici.</p> <p>9. Cuando escucha con auriculares</p> <ul style="list-style-type: none"> No escuche con el volumen muy alto porque podrían dañarse sus oídos. 	 <p>Non utilizzare questa unità in luoghi esposti alla luce solare diretta dove la temperatura può superare i 40°C.</p> <p>1. Evitare l'installazione nei luoghi seguenti</p> <ul style="list-style-type: none"> In luoghi dove l'unità può essere soggetta a vibrazioni. In luoghi eccessivamente umidi come una stanza da bagno. In luoghi dove l'unità può essere magnetizzata da un magnete o da un diffusore. <p>2. Fare attenzione alla polvere</p> <p>Accertarsi di chiudere il piatto o caricatore di CD in modo che la polvere non si raccolga sulla lente del pickup. Non toccare la lente del pickup.</p> <p>3. Condensa</p> <p>Nel casi seguenti della condensa si potrebbe formare nell'unità impedendo il funzionamento corretto dell'unità stessa.</p> <ul style="list-style-type: none"> In una stanza in cui il riscaldamento è appena stato acceso. In un luogo fumoso o con elevata umidità. Quando l'unità viene spostata direttamente da una stanza fredda ad una calda. <p>In questi casi, portare l'unità I / O su STANDBY ed attendere 1 o 2 ore prima di utilizzare l'unità.</p> <p>4. Impostazioni del volume</p> <p>I CD producono un rumore estremamente basso se confrontati con fonti analogiche. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajustelo como deseó durante la reproducción.</p> <p>5. Mecanismo di sicurezza</p> <p>Questa unità incorpora un meccanismo di sicurezza che attiva e disattiva il raggio laser in modo che quando il piatto del CD è aperto il raggio laser viene disattivato automaticamente.</p> <p>6. Non posare nastri a cassetta, ecc., in prossimità dei diffusori</p> <p>Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.</p> <p>7. Tenere l'unità lontana dal televisore</p> <p>Quando questa unità viene utilizzata in prossimità di un televisore, l'immagine TV potrebbe venire distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare le interferenze, evitare di utilizzare questa unità quando il televisore è acceso.</p> <p>8. Pulizia dell'esterno dell'unità</p> <p>Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto.</p> <p>Non usare mai benzina o diluente in quanto essi possono danneggiare la finitura delle superfici.</p> <p>9. Cuando escucha con auriculares</p> <ul style="list-style-type: none"> No escuche con el volumen muy alto porque podrían dañarse sus oídos. 	<p>Connections</p> <ul style="list-style-type: none"> Do not switch the power on until all connections are completed. <p>Antenna connection and adjustment</p> <p>AM (MW/LW) loop antenna adjustment</p> <p><i>CD player/receiver unit Sección del reproductor de CD/ reproductor Sezione lettore CD/spettacolo</i></p>  <p>AM (MW/LW) loop antenna (provided)</p> <p><i>Antena de cuadro de AM (OM/OL) (suministrada) Antena AM (MW/LW) ad anello (in dotazione)</i></p>  <p>Insert in the direction of the arrow. Inserte en la dirección de la flecha. Inserire nella direzione della freccia.</p> <p>FM antenna connections and adjustments</p> <p><i>CD player/receiver unit Sección del reproductor de CD/ reproductor Sezione lettore CD/spettacolo</i></p>  <p>FM feeder antenna (provided)</p> <p><i>Antena de alimentación FM (suministrada) Antena FM a placa (in dotazione)</i></p>  <p>FM outdoor antenna (option)</p> <p><i>Antena exterior de FM (opcional) Antenna FM esterna (opzionale)</i></p>  <p>Notes:</p> <ul style="list-style-type: none"> Use an outdoor antenna when stable reception cannot be obtained with the provided antenna. Cuando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior. Utilizzare un'antenna esterna quando non è possibile ottenere una ricezione stabile per mezzo dell'antenna in dotazione. 	<p>CONEXIONES</p> <ul style="list-style-type: none"> No conecte la alimentación hasta haber completado todas las conexiones. <p>Conexión y ajuste de la antena</p> <p>• Ajuste de la antena de cuadro para AM (OM/OL)</p> <p>AM (MW/LW)loop antenna (provided)</p> <p><i>Antena de cuadro de AM (OM/OL) (suministrada) Antena AM (MW/LW) ad anello (in dotazione)</i></p>  <p>Insert in the direction of the arrow. Inserte en la dirección de la flecha. Inserire nella direzione della freccia.</p> <p>• Conexiones y ajuste de la antena de FM</p> <p>• Raccordements et réglages de l'antenne FM</p>	<p>CONEXIONES</p> <ul style="list-style-type: none"> Non attivare l'alimentazione prima del completamento dei collegamenti. <p>Collegamento e regolazione antena</p> <p>• Regolazione antenna AM ad anello (MW/LW)</p> <p>AM (MW/LW)loop antenna (provided)</p> <p><i>Antena de cuadro de AM (OM/OL) Antena AM (MW/LW) ad anello</i></p>  <p>AM (MW/LW)loop antenna (option)</p> <p><i>Antena de cuadro de AM (OM/OL) Antena AM (MW/LW) ad anello</i></p>  <p>Notes:</p> <ul style="list-style-type: none"> Non installare l'antenna ad anello su di un tavolo metallico oppure nelle vicinanze di un televisore o di un personal computer. L'installazione di un'antenna esterna richiede esperienza; si raccomanda di consultare un rivenditore di apparecchiature audio. Installare il cavo dell'antenna lontano dal cavo di alimentazione e dai cavi dei diffusori in quanto questi potrebbero generare disturbi. Installare l'antenna ad anello in modo che non tocchi il retro dell'unità.

Speaker cord connection**Conexión de los cordones de los altavoces****Attaching the speaker grille**

Right speaker
Altavoz derecho
Diffusore destro

**Colocación de la rejilla del altavoz**

Speaker grille
Rejilla del altavoz
Pannello anteriore diffusore

Aplicazione del pannello anteriore al diffusore

- The speaker grilles can be removed.
- When removing:
 - Insert your fingers at the top and pull towards you.
 - Also pull the bottom towards you.

Notes:

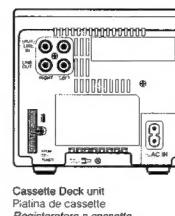
- The polarity of the two connected speakers will be the same if the speaker cords marked with a white line are connected to the \ominus terminals. If the speakers are connected with polarities reversed, stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's picture could be distorted. Install the speakers more than 20 cm away from your TV.
- If the speakers are to be placed away from the main unit, purchase optional speaker cords from an audio store.
- When connecting the speaker cord make sure that the wire core, not the insulating cover, is connected to the speaker terminal. Otherwise, sound cannot be heard.

Notes:

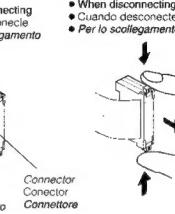
- La polaridad de los dos altavoces conectados es la misma si los cables para altavoz marcados con la linea blanca son conectados a los terminales \ominus . Si se conectan los altavoces con las polaridades invertidas, se degradará el efecto estereofónico y el tono.
- Los altavoces de esta unidad no están blindados magnéticamente. Cuando se los coloca directamente o adyacentes a un TV, la imagen de este puede ser distorsionada. Instale los altavoces a más de 20 cm. de distancia de su TV.
- Si los altavoces van a ser colocados lejos de la unidad principal, adquiera los cordones opcionales para altavoces en una tienda de audio.
- Cuando conecte el cordón del altavoz, asegúrese de que el núcleo del cable, y no la cubierta aislante, quede conectado al terminal del altavoz, de lo contrario no se escuchará sonido.

System connection

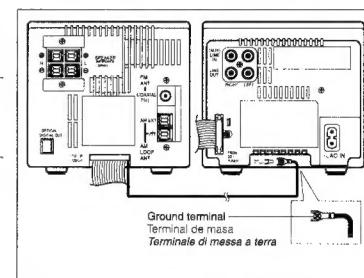
- Connect the flat cable connected to the CD player/receiver unit to the cassette deck unit.

**Conexión del sistema**

- Conecte el cable plano que está conectado a la unidad de CD/reproductor a la platina de cassette.

**Collegamento del sistema**

- Collegare il cavo piatto collegato al lettore CD/lettori a cassette.

**CAUTION:**

To prevent malfunction, connect the grounding wire to the ground terminal as shown.
(Tighten using Philip type screwdriver.)

PRECAUCIÓN:

Para evitar fallas de funcionamiento, conecte el cable de masa al terminal de tierra como se muestra. (Apriete empleando un destornillador Philips.)

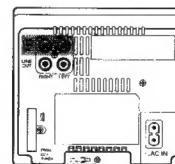
ATTENZIONE:

Per evitare un funzionamento irregolare dell'unità, collegare il filo di terra al terminale di messa a terra nel modo mostrato nell'illustrazione. (Stringere con un cacciavite di tipo Philips.)

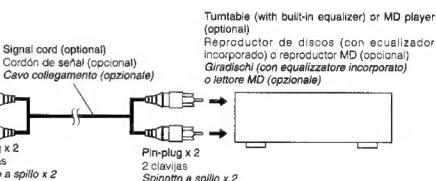
Connection of external audio units

- Connection with a turntable (or MD player)

Cassette Deck unit
Platina de cassette
Registratore a cassette

**Conexión de unidades externas de audio**

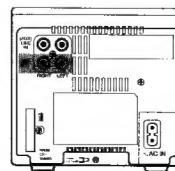
- Conexión con un tocadiscos (o reproductor de MD)



- Connection with an MD recorder, etc. (analog output)

When recording from this unit's CD player, cassette deck or radio to an external MD recorder, etc., connect the cord from this unit's line out terminals to the analog input terminals of the MD recorder, etc.

Cassette Deck unit
Platina de cassette
Registratore a cassette

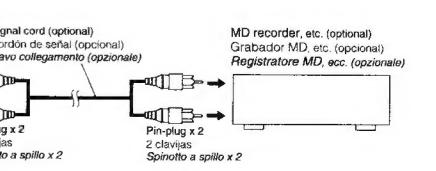


- Conexión con un grabador MD, etc. (salida analógica)

Cuando graba desde este reproductor de CD, platina de cassette o radio, en un grabador MD externo, etc., conecte el cordón de los terminales de salida de linea de esta unidad a los terminales de entrada analógica del grabador MD, etc.

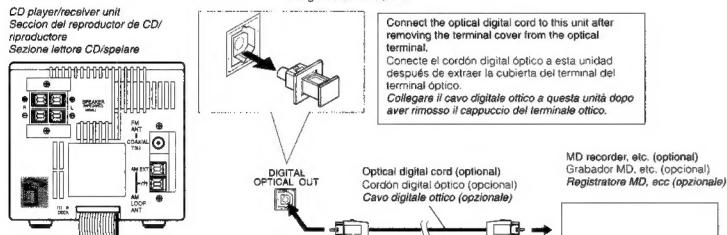
- Collegamento con un registratore MD, etc. (uscita analogica)

Quando si registra dal lettore CD, registratore a cassette o sintonizzatore di questa unità con un registratore MD esterno, ecc., collegare il cavo dei terminali dell'uscita di linea di questa unità ai terminali di ingresso del registratore MD, ecc..



- Connection with an MD recorder, etc. (digital output)

It is possible to transmit a digital sound signal from the CD player of this unit directly to an external MD recorder, etc. that is equipped with an optical input terminal. In this case, connect the cord from this unit's CD optical digital output terminal to the optical input terminal of the MD recorder, etc.
- An optical digital cord (optional) is required to make this connection. Refer to the instruction manual of the MD recorder, etc. for details.



Note:
Regarding the connection with external units and their operations, refer to the instructions provided with those units.

- **Conexión con un grabador MD, etc. (salida digital)**

Es posible transmitir una señal de sonido digital desde el reproductor de CD a esta unidad directamente a un grabador MD externo, etc., que esté equipado con un terminal de ingreso óptico. En este caso, conecte el cordón del terminal de salida digital óptica de esta unidad de CD al terminal de entrada óptica del grabador MD, etc.
- Es necesario utilizar un cordón digital óptico (opcional), para efectuar esta conexión. Por detalles, referirse al manual de instrucciones del grabador MD, etc.

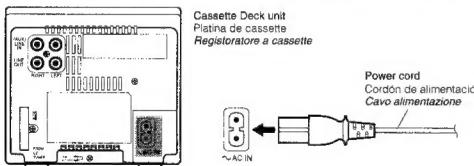
- **Collegamento con un registratore MD, ecc. (uscita digitale)**

E' possibile trasmettere il segnale digitale del lettore CD di questa unità direttamente ad un registratore MD esterno, ecc., fornito di un terminale di ingresso ottico. In questo caso, collegare l'uscita digitale ottica del lettore CD al terminale di ingresso ottico del registratore MD, ecc.
- Per eseguire questo collegamento è necessario un cavo digitale ottico (opzionale). Vedere il manuale di istruzioni del registratore MD, ecc., per ulteriori dettagli.

POWER SUPPLY

Connection of AC power cord

- Connect the AC power cord after all other connections have been made.



CAUTIONS:

1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.
2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

Note:

- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.

ALIMENTACION

Conexión del cordón de CA

- Conecte el cordón de CA después de haber terminado todas las conexiones.

ALIMENTAZIONE

Collegamento del cavo di alimentazione CA

- Collegare il cavo di alimentazione CA dopo aver eseguito tutti gli altri collegamenti.

PRECAUCIONES:

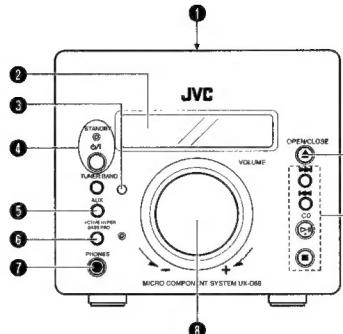
1. PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD UTILICE EL CORDON DE ALIMENTACION JVC SUMINISTRADO CON ESTA UNIDAD.
2. ASEGURESE DE DESENCHUFAR EL CORDON DE ALIMENTACION DEL TOMACORRIENTES CUANDO SALGA O CUANDO NO VAYA A UTILIZAR LA UNIDAD POR UN LARGO PERIODO.

Note:

- Cuando hay un corte de energía eléctrica o cuando se desconecta el cordón de alimentación CA, el ajuste del temporizador/ reloj se borra de la memoria. Reposicione el reloj cuando se restaure el suministro eléctrico.
- Quando si verifica un'interruzione di corrente oppure quando il cavo di alimentazione CA viene scollegato, l'impostazione del timer/orologio viene cancellata dalla memoria. Reimpostare l'orologio quando l'alimentazione viene riattivata.

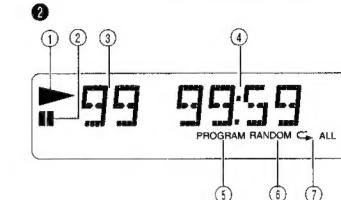
NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section



NOMBRES DE LAS PARTES Y SUS FUNCIONES

Reproductor de CD/sección general



NOMI E FUNZIONI DELLE PARTI

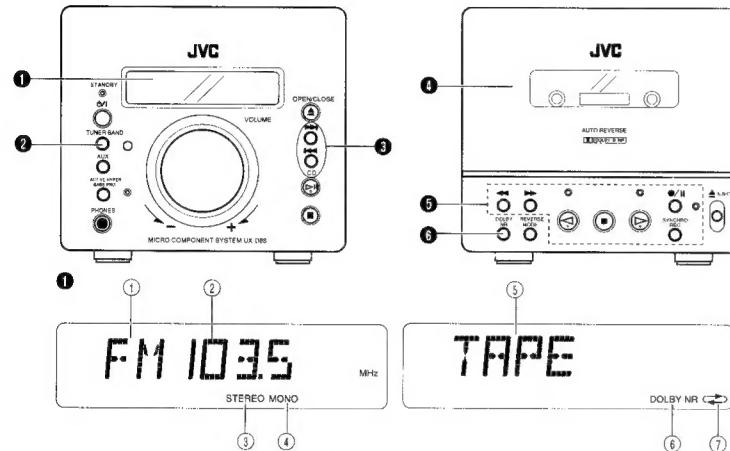
Lettore CD/sezione generale

1 CD holder
2 Display window
3 Playback indicator (▶)
4 Pause indicator (II)
5 Function/Track number display
6 Play time display
7 Program mode indicator (PROGRAM)
8 RANDOM play indicator
9 Repeat play indicator (◀ ALL)
10 Remote sensor section
11 (I/II) button and power STANDBY indicator
12 AUX button
13 ACTIVE HYPER-BASS PRO button and indicator
14 Headphones jack (PHONES) (3.5 mm dia. stereo mini)
Connect headphones (impedance 16 Ω to 1 kΩ) to this jack. Speaker sound is automatically switched off when the headphones are connected.
15 VOLUME control knob
16 CD holder (▲) OPEN/CLOSE button
17 CD operation buttons
18 CD SEARCH buttons (◀◀, ▶▶):
Press to locate the beginning of a track and to start forward/reverse search operations.
19 Play/pause button (▶ II):
Press to play a CD or to stop temporarily.
20 Stop/clear button (II):
Press to stop playing a CD or cancel programmed play. This also sets the CD mode.
21 Mando de control de volumen (VOLUME)
22 Botón (▲) de apertura/cierre (OPEN/CLOSE)
23 Botones para operación del CD Botones CD SEARCH buttons (◀◀, ▶▶):
Presionelos para ubicar el principio de una pista o para iniciar las operaciones de búsqueda hacia adelante/atrás.
24 Botón (II) de reproducción/pausa:
Presionelo para reproducir un CD o para pausar temporalmente.
25 Botón (II) de parada/borrad.
Presionelo para detener la reproducción de un disco o cancelar la reproducción programada.
Este también activa el modo de CD.
26 Tasti funzionamento lettore CD
27 Tasti CD SEARCH (◀◀, ▶▶):
Premere questi tasti per localizzare l'inizio di un brano o per avviare le operazioni di ricerca in avanti/all'indietro.
28 Tasto riproduzione/pausa (▶ II):
Premere questo tasto per riprodurre un CD oppure per interrompere temporaneamente la riproduzione.
29 Tasto arresto/cancellazione (II):
Premere questo tasto per interrompere la riproduzione di un CD o per cancellare la riproduzione programmata. Questo tasto impone anche il modo del CD.

Tuner/Deck section

Sección del sintonizador/platina

Sezione sintonizzatore/registratore



① Display window
 ① Band indicator
 ② Radio frequency display
 ③ STEREO indicator
 ④ MONO indicator
 ⑤ Tape (TAPE) mode display
 ⑥ DOLBY B NR indicator (DOLBY NR)
 ⑦ Reverse mode indicator (↔/↔/↔)

• See page 29 for the clock adjustment.

② TUNER/BAND button
 Press to select tuner mode.
 Press to select the band.

③ Tuning buttons (↔/↔/↔)

④ Cassette holder

⑤ Cassette operation buttons

↔: Press to fast wind the tape from right to left or to start Music scan.

↔: Press to fast wind the tape from left to right or to start Music scan.

↔: Press to play back the tape in the reverse direction.

■: Press to stop the tape.

This also sets the TAPE mode.

↔: Press to play back the tape in the forward direction.

●/II: Press to set the unit to the record or record/pause mode.

SYNCHRO REC: Press to start CD syncro recording.

⑥ DOLBY NR button

Set to ON when recording or playing back tapes using the noise reduction system.

① Ventanilla de indicación
 ① Indicador de banda
 ② Indicación de frecuencia de radio
 ③ indicador estéreo (STEREO)
 ④ indicador monofónico (MONO)
 ⑤ indicador del modo de cinta (TAPE)
 ⑥ indicador de reducción de ruido DOLBY B NR (DOLBY NR)
 ⑦ indicatore del modo di inversione (↔/↔/↔)

• Para el ajuste del reloj vea la página 28.

② Botón sintonizador/banda (TUNER/BAND)
 Presiónelo para seleccionar el modo de sintonizador.

③ Botones para seleccionar la banda.

④ Portacassette

⑤ Botones de operación del cassette

↔: Presione el bobinado rápido de la cinta de derecha a izquierda o para iniciar la búsqueda de música.

↔: Presione el bobinado rápido de la cinta de izquierda a derecha para iniciar la búsqueda de música.

↔: Presione para reproducir la cinta en sentido contrario.

■: Presione la para parar la cinta.

Esto también activa el modo TAPE.

↔: Presione para reproducir la cinta hacia adelante.

●/II: Presione para activar el modo de grabación o pausa de grabación en una unidad.

SYNCHRO REC: Presione para iniciar la grabación sincronizada de CD.

⑥ Botón de reducción de ruido (DOLBY NR)
 Colóquelo en ON cuando grava o reproduce cintas utilizando el sistema de reducción de ruido.

① Finestrella display
 ① Indicatore banda
 ② Display frecuencia
 ③ Indicatore stereo (STEREO)
 ④ Indicatore mono (MONO)
 ⑤ Display modo registratore (TAPE)
 ⑥ Indicatore modo DOLBY B NR (DOLBY NR)
 ⑦ Indicatore modo reverse (↔/↔/↔)

• Vedi pag. 28 per la regolazione dell'orologio.

② Tasto sintonizzatore/banda (TUNER/BAND)
 Premere questo tasto per selezionare il modo del sintonizzatore.

③ Tasto sintonizzazione (↔/↔/↔)

④ Vano portacassette

⑤ Tasti funzionamento registratore a cassetta

↔: Premere per avvolgere rapidamente il nastro da destra a sinistra oppure per avviare la ricerca musicale.

↔: Premere per avvolgere rapidamente il nastro da sinistra a destra oppure per avviare la ricerca musicale.

↔: Presione para reproducir el nastro en dirección inversa.

■: Presione la para parar la cinta.

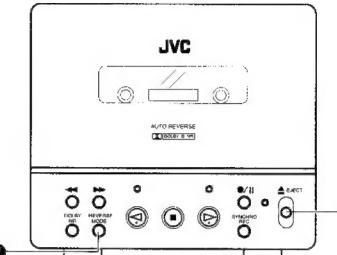
Esto también activa el modo TAPE.

↔: Presione para reproducir la cinta hacia adelante.

●/II: Presione para activar el modo de grabación o pausa de grabación en una unidad.

SYNCHRO REC: Premere para avviare la registrazione sincronizzata di un CD.

⑥ Tasto sistema di riduzione del rumore Dolby (DOLBY NR)
 Impostare su ON quando si desidera registrare o riprodurre un nastro utilizzando il sistema di riduzione del rumore.



① REVERSE MODE switch
 ↔: For single-side recording or playback
 ↔: For recording or playback on both sides
 ↔: For continuous play
 ② EJECT button

① Comutador de modo de inversión (REVERSE MODE)
 ↔: Para grabación o reproducción su un solo lado
 ↔: Para grabación o reproducción de un solo lado
 ↔: Para grabación o reproducción de ambos lados
 ↔: Para reproducción continuada
 ② Botón de eyeción (EJECT)

① Selettori modo reverse (REVERSE MODE)
 ↔: Per la registrazione o riproduzione su un solo lato
 ↔: Per la registrazione o riproduzione su entrambi i lati
 ↔: Per la riproduzione continua
 ② Tasto di espulsione (EJECT)

REMOTE CONTROL UNIT

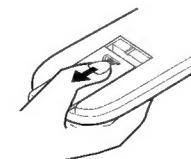
UNIDAD DE CONTROL REMOTO

UNITA DI TELECOMANDO

Preparation before use

• Installing batteries in the remote control unit

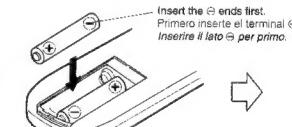
1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R6/AA (15F)" size batteries.
3. Replace the cover.



Preparativos antes usarla

• Instalación de las pilas en la unidad de control remoto

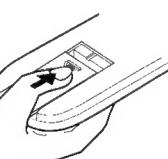
1. Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
2. Inserte dos pilas de tamaño "R6/AA (15F)".
3. Reemplace la tapa.



Preparativi prima dell'uso

• Installazione delle batterie nel telecomando

1. Rimuovere il coperchio del vano batterie dal retro del telecomando.
2. Inserire due batterie di formato "R6/AA (15F)".
3. Reinstallare il coperchio.



Battery replacement

When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Reemplazo de las pilas

Cuando el funcionamiento del controlador remoto se vuelve inestable o la distancia dentro de la cual actúa se reduce, reemplace las pilas.

Using the remote control unit

• Point at the remote sensor and operate within about 7 m (approx. 23 ft).

• The remote control range is less when the unit is at an angle.

• Do not expose the remote sensor to strong direct sunlight or artificial lighting.

• Make sure that there are no obstacles between the remote sensor and the unit.

Utilización de la unidad de control remoto

• Apuntar hacia el sensor remoto y hágala funcionar dentro de un radio de 7 m. aprox.

• El radio de acción del controlador remoto es menor cuando se lo apunta a un ángulo.

• No exponga el sensor remoto a la luz directa del sol o a fuerte iluminación artificial.

• Asegúrese de que no hayan obstáculos entre el sensor remoto y el controlador remoto.

Uso dell'unità di telecomando

• Utilizzare l'unità di telecomando entro una distanza di circa 7 metri puntandolo verso la sezione sensore telecomando.

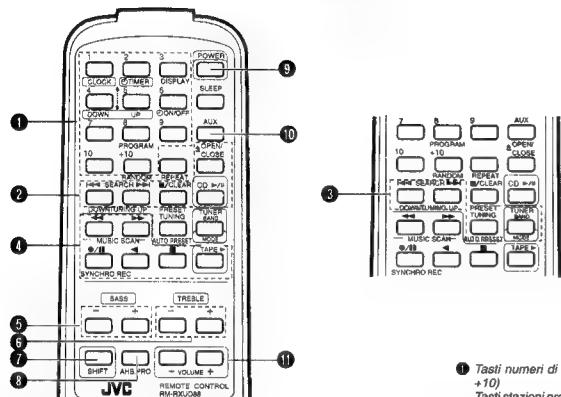
• Il campo di funzionamento dell'unità di telecomando è inferiore se essa viene utilizzata da una posizione angolare.

• Non esporre la sezione sensore telecomando a luce naturale o artificiale intensa.

• Accertarsi che non vi siano ostacoli tra la sezione sensore telecomando e l'unità di telecomando.

The following operations can be performed using the remote control unit.

- Check the operation button functions carefully and operate them correctly.



- ① Track number buttons (No. 1 to No. 10, +10)
- ② Preset station buttons (No. 1 to No. 10, +10)

③ CD operation buttons

CD holder (▲) OPEN/CLOSE button

Play/pause button (▶/■):

Press to play a CD or to stop temporarily.

Stop (■)/CLEAR button

SEARCH (◀, ▶) buttons

④ Radio operation buttons

UP and DOWN buttons

PRESET TUNING button

TUNER/BAND button

Press to select tuner mode.

Press to select the band.

⑤ Cassette operation buttons

◀: Press to fast wind the tape from right to left or to start Music scan.

▶: Press to fast wind the tape from left to right or to start Music scan.

◀/■: Press to set the unit to the record or record-pause mode.

◀: Press to play back the tape in the reverse direction.

■: Press to stop the tape.

This also sets the TAPE mode.

▶: Press to play back the tape in the forward direction.

⑥ BASS buttons (+, -)

(Control range from -6 to 6)

⑦ TREBLE buttons (+, -)

(Control range from -6 to 6)

⑧ SHIFT button

⑨ ACTIVE HYPER-BASS (AHB) PRO button

⑩ POWER button

⑪ AUX button

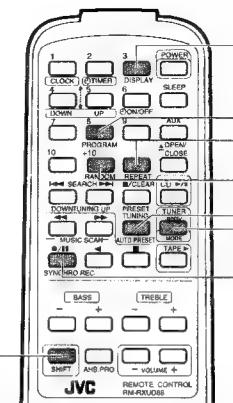
⑫ VOLUME buttons (+, -)

Las siguientes operaciones deben ser ejecutadas utilizando la unidad de control remoto.

- Compruebe detalladamente el funcionamiento de los botones de operación y opérelos correctamente.

Le operazioni seguenti possono essere eseguite utilizzando l'unità di telecomando.

- Controllare con attenzione le funzioni dei tasti ed utilizzare quest'ultimi in modo corretto.



Press the following buttons while holding down the SHIFT button ⑪.

- ⑪ Tasti numeri di brano (dal No. 1 al No. 10, +10)

Tasti stazioni preselezionate (dal No. 1 al No. 10, +10)

- ⑪ Tasti funzionamento lettore CD

Tasto apertura/chiusura piastra CD (▲) (OPEN/CLOSE)

Tasto riproduzione/pausa (▶/■):
Premere per riprodurre un CD o per interrompere temporaneamente la riproduzione.

Tasto arresto/cancellazione (■/CLEAR)

Tasti ricerca (SEARCH) (◀, ▶):
Bottoni di selezione (PRESET TUNING)

Tasto sintonizzatore/banda (TUNER/BAND):
Premere questo tasto per selezionare il modo del sintonizzatore.

Premere questo tasto per selezionare la banda.

⑪ Tasti funzionamento registratore a cassetta

◀: Premere per avvolgere rapidamente il nastro da destra a sinistra oppure per avviare la ricerca musicale.

▶: Premere per avvolgere rapidamente il nastro da sinistra a destra oppure per avviare la ricerca musicale.

⑪ Tasti: Premere per portare l'unità nel modo di registrazione o di pausa della registrazione.

◀: Premere per riprodurre il nastro nella direzione inversa.

■: Premere per interrompere lo scorrimento del nastro.

Questo tasto serve anche per impostare il modo TAPE.

▶: Premere per riprodurre il nastro nella direzione normale.

⑪ Botones de grave (BASS) (+, -)

(Gamma controllo da -6 a 6)

⑪ Botón de agudos (TREBLE) (+, -)

(Gamma controllo de -6 a 6)

⑪ Tasto de pase (SHIFT)

⑪ Botón de hiper grave activo profesional (ACTIVE HYPER-BASS (AHB) PRO)

⑪ Botón de alimentación (POWER)

⑪ Tasto auxiliar (AUX)

⑪ Botones de volumen (VOLUME) (+, -)

Presione los siguientes botones mientras mantiene presionado el botón ⑪ SHIFT.

- ⑪ Tasto display (DISPLAY)

Utilizzarlo per visualizzare l'orario corrente.

- ⑪ Tasto programmazione (PROGRAM)

Utilizzarlo per llamar la hora actual.

- ⑪ Tasto riproduzione ripetuta (REPEAT)

Utilizzarlo per la ripetizione della reproducción.

- ⑪ Tasto de reproducción aleatoria (RANDOM)

Utilizzarlo para la reproducción aleatoria.

- ⑪ Tasto de preselección automática (AUTO PRESET)

Utilizzarlo para la selección automática.

- ⑪ Tasto modo FM (FM MODE)

Utilizzarlo para el modo FM.

- ⑪ Tasto de grabación sincronizada (SYNCHRO REC)

Premere i seguenti tasti tenendo premuto il tasto SHIFT.

- ⑪ Tasto display (DISPLAY)

Utilizzarlo per visualizzare l'orario corrente.

- ⑪ Tasto programmazione (PROGRAM)

Utilizzarlo per llamar la hora actual.

- ⑪ Tasto riproduzione casuale (RANDOM)

Utilizzarlo per la ripetizione della reproducción.

- ⑪ Tasto preselezione automatica (AUTO PRESET)

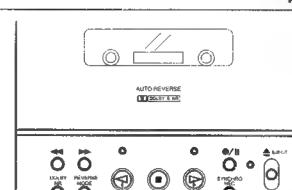
Utilizzarlo para la selección automática.

- ⑪ Tasto modo FM (FM MODE)

Utilizzarlo para el modo FM.

- ⑪ Tasto de grabación sincronizada (SYNCHRO REC)

SWITCHING THE POWER ON/OFF



TAPE play (◀, ▶) buttons

Bottoni de reproducción TAPE (◀, ▶)

Tasti di reproducción TAPE (◀, ▶)

STANDBY indicator

Indicador STANDBY

One touch operation (COMPU PLAY)
Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

Operación de un solo toque (COMPU PLAY)

Cuando la alimentación está colocada en STANDBY, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente.

Funzionamento ad un solo tocco (COMPU PLAY)

Anche se l'unità si trova nel modo STANDBY, premendo uno dei tasti indicati di seguito essa si accende e una sorgente di segnale viene attivata.

	Function mode Modo de función Modo di funzionamento	Operations Operaciones Operazioni
CD	CD	When this button is pressed with a CD loaded, CD playback begins. Cuando se presiona este botón habiendo un CD colocado, comienza la reproducción del mismo. Se questo tasto viene premuto a lettore CD carico, la riproduzione del CD ha immediatamente inizio.
or o aprire	TAPE	When this button is pressed with a tape loaded, tape playback begins. Cuando se presiona este botón habiendo una cinta colocada, comienza la reproducción de la misma. Se questo tasto viene premuto a registrare a cassette carica, la riproduzione della cassetta ha immediatamente inizio.
TUNER BAND	TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Se questo tasto viene premuto, il sintonizzatore si accende.
AUX	AUX	A sound source connected to the AUX terminal can be engaged. Es posible activar una fuente de sonido que esté conectada al terminal AUX. Può attivare una sorgente di segnale collegata al terminal AUX.

When the (▲) OPEN/CLOSE button is pressed, the sound source does not switch, but the CD holder can open or close.

Notes:

- When switching off the power, be sure to press the (d/c) button.
- The COMPU PLAY button on the remote control has the same function as that on the main unit.

Cuando se presiona el botón (▲) OPEN/CLOSE la fuente de sonido no se cambia, pero se puede abrir o cerrar el compartimiento del CD.

Notas:

- Para desconectar la alimentación asegúrese de presionar el botón d/c].
- El botón COMPU PLAY del controlador remoto tiene la misma función que el de la unidad principal.

Quando il tasto OPEN/CLOSE (▲) viene premuto, la fonte sonora non cambia ma il piatto del CD viene aperto o chiuso.

Note:

- Spingere l'unità solo premendo il tasto d/c].
- Il tasto COMPU PLAY del telecomando possiede le stesse funzioni di quello omonimo dell'unità principale.

VOLUME, TONE AND OTHER CONTROLS

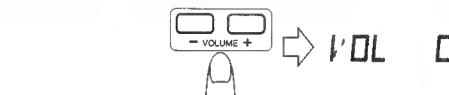
VOLUMEN, TONO Y OTROS CONTROLES

VOLUME, TONI ED ALTRI COMANDI

VOLUME buttons (using the remote control unit)
+ : Use to increase the volume,
- : Use to decrease the volume,
(Control range from VOL 0 to VOL 50.)

Botones VOLUME (usando el mando a distancia)
+ : Usarlo para aumentar el volumen.
- : Usarlo para reducir el volumen.
(Los límites de control van de VOL 0 a VOL 50.)

Tasti VOLUME (con l'unità di telecomando)
+ : Per aumentare il volume.
- : Per diminuire il volume.
(Gamma controllo volume da VOL 0 a VOL 50.)



BASS/TREBLE buttons (using the remote control unit)
To set the bass or treble level, press the corresponding button. The level setting ranges from -6 to 6.

Botones BASS/TREBLE (usando el mando a distancia)
Para ajustar el nivel de grave o agudo, presione el botón correspondiente. El ajuste de nivel va de -6 a 6.

Tasti BASS/TREBLE (con l'unità di telecomando)
Per impostare il livello dei bassi o degli acuti, premere il tasto corrispondente. L'impostazione del livello spazia da -6 a 6.



ACTIVE HYPER-BASS PRO button
ON: The ACTIVE HYPER-BASS PRO indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.

OFF: The ACTIVE HYPER-BASS PRO indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON: Se enciende el indicador ACTIVE HYPER-BASS PRO. Colóquelo en esta posición para activar el sonido hiper grave activo profesional.

Tasto ACTIVE HYPER-BASS PRO
ON: L'indicatore ACTIVE HYPER-BASS PRO si illumina. Selezionare questa impostazione per attivare la funzione Active Hyper Bass Pro.
OFF: L'indicatore ACTIVE HYPER-BASS PRO si spegne. Selezionare questa impostazione per disattivare la funzione Active Hyper Bass Pro.

HANDLING CDs

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

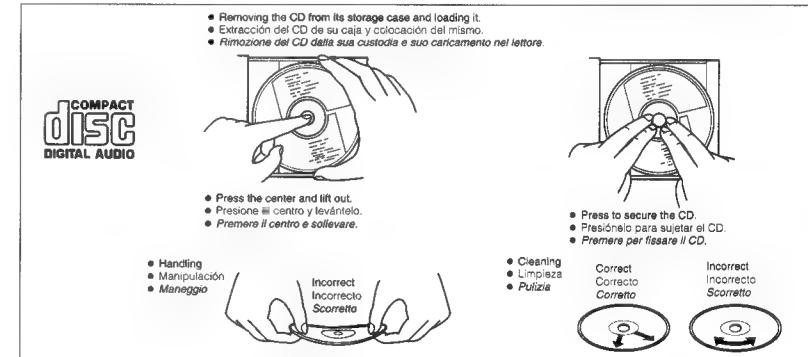
- 1. Usable CDs**
Use CDs with the mark shown.
- 2. Notes on handling CDs**
 - Do not touch the reflective recorded surface.
 - Do not stick or write anything on the label side.
 - Do not bend CDs.
- 3. Storage**
 - After removing a CD from the unit, be sure to put it back in its case.
 - Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.
- 4. Cleaning CDs**
 - Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.
 - Never use thinner, benzine, record cleaner or antistatic spray.

Como los CD sucios, dañados o alabeados pueden dañar la unidad, tome precauciones en relación a lo siguiente:

- 1. CD utilizzabili**
Utilizzare CD con la marca indicata.
- 2. Note sui maneggi del CD**
 - Non toccare la superficie grabada riflettente.
 - Non adhiera né scrivere alcunché sul lato etichettato.
 - Non piegare i CD.
- 3. Conservazione**
 - Dopo aver rimosso un CD dall'unità, accertarsi di riportarlo nella sua custodia.
 - Non esporre i CD alla luce solare diretta, a temperature elevate, ad umidità elevata o a polvere.
- 4. Pulizia del CD**
 - Antes de colocar un CD, límpie el polvo, suciedad o huellas digitales con un paño suave. Los CD deben ser limpiados radialmente desde el centro hacia el borde.
 - Nunca utilice solvente, benzina, limpiador de discos o aerosol antiestático.

Dato che CD sporchi, danneggiati o deformati possono danneggiare l'unità, fare attenzione a quanto segue:

- 1. CD utilizzabili**
Utilizzare solo CD recenti il marchio indicato.
- 2. Note sui maneggi del CD**
 - Non toccare la superficie registrata riflettente.
 - Non incollare né scrivere alcunché sul lato etichettato.
 - Non piegare i CD.
- 3. Conservazione**
 - Dopo aver rimosso un CD dall'unità, accertarsi di riportarlo nella sua custodia.
 - Non esporre i CD alla luce solare diretta, a temperature elevate, ad umidità elevate o polvere.
- 4. Pulizia del CD**
 - Prima di inserire un CD, pulire polvere, sporco o impronte digitali con un panno morbido. I CD devono essere puliti strisciando radialmente, dal centro verso il bordo.
 - Non utilizzare mai diluente, benzina, liquido pulente per dischi o spray antistatici.



PLAYING CDs

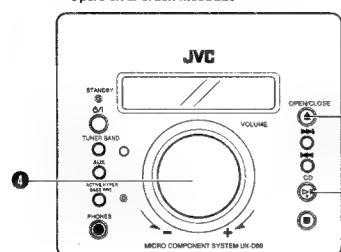


REPRODUCCIÓN DE CD

Playing an entire CD

The following example of playing an entire CD assumes a CD with 12 tracks and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



- ① Press to open the CD holder. (The power is switched on.)
- ② Load a CD with the label side facing up and close the CD holder.
- ③ Press to start play.
- ④ Adjust.

Note:
When the CD holder is closed by pressing the \gg button, the CD starts as soon as the CD holder is closed.

- 8-cm (3") CDs can be used in this unit without an adapter.

- To stop in the middle of a CD
During play, press the stop/clear (■) button to stop play.



12 40:57

- To stop a CD temporarily
Press the \gg button to stop play temporarily. (The "II" indicator lights). When pressed again, play resumes from the point where it was paused.

- To change CDs, press the stop/clear (■) button; check that the CD has stopped rotating completely before unloading it.

Notes:

- When no CD is loaded, "NO DISC" is indicated in the display window. This indication may also appear when a CD is loaded upside down.
- The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down.

In such a case, check the CD and insert again after cleaning the CD or turning it over.



- Do not use the unit at excessively high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

- After play, unload the CD.

If mistracking occurs during play, lower the volume.

REPRODUCCIÓN DE CD

Reproducción de un CD completo

El siguiente ejemplo de reproducción de un CD completo supone que se ha colocado un CD con 12 pistas y un tiempo total de reproducción de 48 minutos y 57 segundos.

Operar en el orden mostrado

RIPRODUZIONE DI CD

Riproduzione di un intero CD

L'esempio seguente per la riproduzione di un intero CD considera un CD con 12 brani ed un tempo di riproduzione totale di 48 minuti e 57 secondi.

Eseguire le operazioni nell'ordine indicato

RIPRODUZIONE DI CD

Skip play

- During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track; when the beginning of the required track has been located, play starts automatically.

To listen to the next track...

- Press the \gg button once to skip to the beginning of the next track.

To listen to the previous track...

- Press the \ll button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search play (to locate the required position on the CD)

- The required position can be located using fast-forward or reverse search while playing a CD.

Keep pressing for fast-forward search.

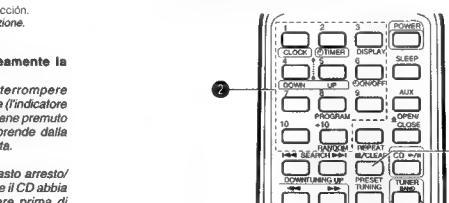
Mantenga presionado para la búsqueda progresiva rápida.

Tenerlo premuto para la búsqueda rápida al revés.

- Hold down the \gg button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access play (using the remote control unit)

- Pressing any of the track number buttons will start play from the beginning of the designated track without you having to press the \gg button. (This function cannot be used during programmed play.)



- Presione el botón \gg /CLEAR para activar el modo del lector CD.

- Seleccione el brano deseado utilizando los botones de número de pista.

- Para designar las pistas del número 1 a 10, presione el botón de número de pista correspondiente al mismo.

- Para designar el número de pista 11 o superior, presione el botón +10 el número necesario de veces, y luego un botón de número de pista.

- Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista.

- +10 button:
Cada vez que presiona este botón, el número se incrementa en 10. Primero presione este botón para ingresar las decenas, luego presione el botón de número de pista para ingresar las unidades.

- If each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

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RIPRODUZIONE CON SALTO

- Durante la reproducción es posible saltar hacia adelante hasta el principio de la próxima pista o hacia atrás hasta el principio de la pista anterior; cuando haya localizado el principio de la pista deseada, la reproducción se inicia automáticamente.

Para escuchar la próxima pista...

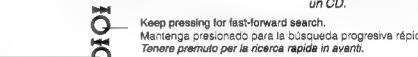
- Presione una vez el botón \gg para saltar al principio de la próxima pista.

Para escuchar la pista anterior...

- Presione el botón \ll para saltar al principio de la pista que está siendo reproducida. Presínelo dos veces rápidamente para saltar al principio de la pista anterior.

RIPRODUZIONE CON BÚSQUEDA (para localizar la posición deseada en el CD)

- La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o invertida mientras reproduce un CD.



- Mantenga presionado el botón; la búsqueda con reproducción se inicia lentamente y luego aumenta gradualmente la velocidad.

- Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente a un cuarto del nivel normal), monitoree el sonido y suelte el botón cuando haya localizado la posición deseada.

RIPRODUZIONE AD ACCESO DIRETTO (utilizzando la unidad di telecomando)

- Si presiona cualquiera de los botones de número de pista la reproducción se iniciará desde el principio de la pista escogida sin que tenga que presionar el botón \gg . (Esta función no puede ser usada durante la reproducción programada.)

- Presione el botón \gg /CLEAR para activar el modo del lector CD.

- Designare il brano desiderato utilizzando i tasti dei numeri di brano.

- Per designare i numeri di brano da 1 a 10, premere il tasto numerico corrispondente al numero del brano.

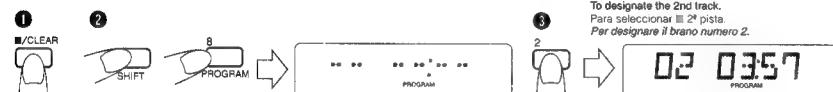
- Per designare il numero 11 o un numero maggiore, premere il tasto +10 per il numero di volte necessario e quindi un tasto numerico. (Esempio: Per indicare il 20° brano, premere una volta il tasto +10 e quindi il tasto di numero di brano 10).

- Tasto +10:
Ogni volta che questo tasto viene premuto, il numero aumenta di 10. Premere questo tasto per impostare le decine e quindi premere un tasto numerico per impostare le unità.

- To skip to another track during play
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated track.

Programmed play (using the remote control unit)

- Up to 20 tracks can be programmed to be played in any required order.
The total playing time of programmed tracks is displayed (up to 99 minutes, 59 seconds). (Example: When programming the 2nd track to be played first, and the 6th track next, then the 12th track, etc.)



To designate the 12th track.
Para seleccionar la 12^a pista.
Per designare il brano numero 12.
+10 2
RANDOM → 12 12:27
PROGRAM

- Press the [CLEAR] button.
- Press the PROGRAM button while pressing the SHIFT button to set to the programming mode.
- Release the SHIFT button.
- Press to designate the required track number.
- Designate the remaining tracks by pressing the track number buttons.
- Press the [II] button when programming is completed. Programmed play starts.

To confirm the details of a program...

Press the PROGRAM button while pressing the SHIFT button; the tracks making up the program will be displayed in programmed order.



To clear the programmed tracks...

Press the [CLEAR] button before playing a CD. During programmed play, press this button twice. When the CD holder is opened, programmed tracks are cleared automatically.

- Para saltar a otra pista durante la reproducción
Cuando presiona el número de pista deseada, la indicación muestra el número de la pista y se inicia la reproducción desde el principio de la pista designada.

Reproducción programada (utilizando la unidad de control remoto)

- Es posible programar un máximo de 20 pistas para reproducción en el orden deseado. La unidad indicará el tiempo total de reproducción de las pistas programadas (máximo de 99 minutos, 59 segundos). (Ejemplo: Cuando programa la 2^a pista para que sea reproducida primero y la 6^a para ser reproducida a continuación, y luego la pista 12^a, etc.)

- Per saltare ad un altro brano durante la riproduzione.
Quando il tasto del numero di brano desiderato viene premuto, il display indica il numero di brano designato e la riproduzione inizia da tale brano.

Riproduzione programmata (utilizzando l'unità di telecomando)

- Fino a 20 brani possono essere programmati per essere riprodotti in qualsiasi ordine desiderato.
Il tempo totale di riproduzione dei brani programmati viene visualizzato (fino a 99 minuti e 59 secondi). (Esempio: Quando si programma per riprodurre per primo il brano numero 2, per secondo il brano numero 6, per terzo il brano numero 12, ecc.).

To designate the 2nd track.
Para seleccionar la 2^a pista.
Per designare il brano numero 2.
PROGRAM



- Presione el botón [CLEAR].
- Para activar el modo de programación, presione el botón PROGRAM al mismo tiempo que presiona el botón SHIFT.
- Suelte el botón SHIFT.
- Presione para seleccionar el número deseado de pista.
- Designe las pistas restantes presionando los botones de número de pista.
- Cuando termine la programación presione el botón [II]. Se inicia la reproducción programada.

- Premere il tasto [CLEAR].
- Per attivare il modo di programmazione, premere il tasto PROGRAM mentre si tiene premuto il tasto SHIFT.
- Rilasciare il tasto SHIFT.
- Presione per selezionare il numero desiderato.
- Designare gli altri brani con i tasti numerici.
- Premere il tasto [II] quando la programmazione è terminata. La riproduzione programmata si avvia.

Para confirmar los detalles de un programa...
Presione el botón PROGRAM conjuntamente con el botón SHIFT; las pistas que componen el programa serán indicadas en el orden programado.

Per controllare i dettagli di un programma...
Premere il tasto PROGRAM mentre si tiene premuto il tasto SHIFT; i brani programmati vengono visualizzati nell'ordine programmato.

- Para borrar las pistas programadas...
Presione el botón [CLEAR] antes de reproducir el CD. Durante la reproducción programada presione este botón dos veces. Cuando se abre el compartimiento del CD, las pistas programadas se borran automáticamente.

Per cancellare i brani programmati...
Premere il tasto [CLEAR] prima di riprodurre un CD. Durante la riproduzione programata, premere questo tasto due volte. Quando il piastrino del CD viene aperto, i brani programmati vengono cancellati automaticamente.

- Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción.
- When programming a track number higher than 21 on a disc containing more than 21 tracks, the total playback time of all the programmed tracks will not be displayed.

- Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción.
- Cuando se programa un número de pista mayor que 21 en un disco que contiene más de 21 pistas, el tiempo de reproducción total de todas las pistas programadas, no es indicado.

Repeat play (using the remote control unit)

Press the REPEAT button while pressing the SHIFT button before or during play. A single track or all the tracks can be repeated.

Whether a single track or all tracks are to be repeated can be specified. Each time the REPEAT button is pressed while pressing the SHIFT button, the mode will change from a single track (↔), to all the tracks (↔ ALL), to the clear mode, in this order.



- Single track repeat (↔)
The current or specified track will be played repeatedly.

- All tracks of one CD repeat (↔ ALL)
All tracks on the current or specified CD will be played repeatedly.

Random play (using the remote control unit)

Press the RANDOM button while pressing the SHIFT button, and all tracks on a CD play once in random order.

HANDLING CASSETTE TAPES

Cassette tapes

- Loose tape may cause trouble. Using a pencil or like object, gently tighten the tape as shown.
- To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver, etc. Reseal the slots with adhesive tape to erase and re-record after the tabs have been removed.
- C-120 cassettes are not recommended because they are prone to malfunction.

Cassette loading

- Premere el botón EJECT (▲) para abrir el portacasette.
- Extraiga el cassette como se muestra.
- Cierre el portacasette presionándolo suavemente. Cuando oiga un "clic" ello indica que el portacasette está correctamente cerrado.

- Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción.
- Cuando se programa un número de pista mayor que 21 en un disco que contiene más de 21 pistas, el tiempo de reproducción total de todas las pistas programadas, no es indicado.

- Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción.
- Cuando se programa un número de pista mayor que 21 en un disco que contiene más de 21 pistas, el tiempo de reproducción total de todas las pistas programadas, no es indicado.

Repetición de reproducción (utilizando la unidad de control remoto)

Premese el botón REPEAT mientras se tiene premuto el tasto SHIFT prima o durante l'execuzione. La riproduzione ripetuta può essere eseguita per un brano singolo oppure per tutti i brani.

Es posible especificar la reproducción de una sola o de todas las pistas. Cada vez que presiona el botón REPEAT conjuntamente con el botón SHIFT, el modo cambiará de la siguiente manera: una sola pista (↔), a todas las pistas (↔ ALL), al modo de borrado, en este orden.



- Repetizione di una sola pista (↔)
La pista attuale o la specificata sarà riprodotta ripetutamente.

- Repetizione di tutte le piste di un CD (↔ ALL)
Todas las pistas del CD actual o del especificado serán reproducidas repetidamente.

Reproducción aleatoria (utilizando la unidad de control remoto)

Para reproducir una vez todas las pistas de un CD aleatoriamente, presione el botón RANDOM conjuntamente con el botón SHIFT.



MANIPULACION DE CASSETTES DE CINTA

Cassettes de cinta

- La cinta floja puede causar problemas. Utilice un lápiz o un objeto similar y tensione gentilmente la cinta tal como se muestra.
- Para evitar borrar grabaciones accidentalmente, extraiga las lengüetas con un desatornillador, etc. Reseal the slots with adhesive tape to erase and re-record after the tabs have been removed.

- No se recomienda el uso de cassettes C-120 porque tienen tendencia a fallar.

Colocación de cassettes

- Premese el botón EJECT (▲) para abrir el portacasette.
- Extraiga el cassette como se muestra.
- Cierre el portacasette presionándolo suavemente. Cuando oiga un "clic" ello indica que el portacasette está correctamente cerrado.

- Se la durata dei brani programmati per la riproduzione supera i 99 minuti e 59 secondi, l'indicazione della durata della riproduzione scompare dal display.
- Se si programma un numero di brano superiore al 21 su di un disco che contiene oltre 21 brani, la durata totale di tutti i brani non viene visualizzata.

Riproduzione ripetuta (utilizando la unidad de telecomando)

Premere il tasto REPEAT mentre si tiene premuto il tasto SHIFT prima o durante l'esecuzione. La riproduzione ripetuta può essere eseguita per un brano singolo oppure per tutti i brani.

E' possibile specificare se si desidera la riproduzione ripetuta di un singolo brano oppure di tutti i brani. Ogni volta che il tasto REPEAT viene premuto assieme al tasto SHIFT, il modo cambia dal modo di ripetizione di un brano (↔), al modo di ripetizione di tutti i brani (↔ ALL) al modo di cancellazione della riproduzione ripetuta, nell'ordine.

Repet. playback is released.
Desactivación de la repetición de reproducción.
La reproducción ripetuta viene cancelada.

- Ripetizione di un singolo brano (↔)
Il brano attuale o da voi indicato viene riprodotto più volte.
- Ripetizione di un intero CD (↔ ALL)
Tutti i brani del CD attuale o programmato vengono riprodotti ripetutamente.

Riproduzione casual (utilizando la unidad de telecomando)

Premere il tasto RANDOM mentre si tiene premuto il tasto SHIFT per riprodurre tutti i brani di un CD per una volta in un ordine casuale.

MANEGGIO DEI NASTRI A CASSETTA

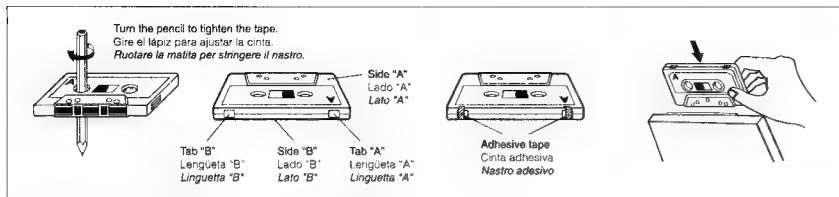
Nastri a cassetta

- Nastri allentati possono causare problemi. Eliminare l'allentamiento del nastro come illustrato per mezzo di una matita o di un oggetto simile.
- Per evitare la cancellazione accidentale di registrazioni, rimuovere le lengüetas con un cacciavite o un oggetto simile. Per cancellare o registrare nuovamente il nastro, coprire i fori con nastro adesivo.

- Si recomienda de no utilizar cassettes C-120 in quanto queste possono causare problemi.

Insertimento cassette

- Premere il tasto EJECT (▲) para abrir el portacasette.
- Extraiga el cassette como se muestra.
- Cierre el portacasette presionándolo suavemente. Cuando oiga un "clic" ello indica que el portacasette está correctamente cerrado.

**Note:**

If the power is switched off while tape is running, it may be impossible to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.

Auto tape select mechanism

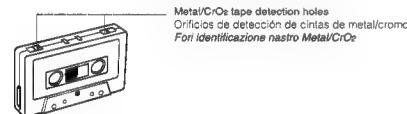
This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using detection holes in the cassette. After the type of tape has been detected, bias and equalization suitable for the tape are set.

Cassettes with detection holes:

Metal tape (EQ: 70 μ s) Type IV
CrO₂ (chrome) tape (EQ: 70 μ s) Type II

Cassettes without detection holes:

Normal tape (EQ: 120 μ s) Type I

**Note:**

Si se desconecta la alimentación durante el transporte de cinta, puede que sea imposible extraer el cassette. Si ello ocurre, conecte la alimentación otra vez antes de intentar extraer el cassette.

Mecanismo de selección automática de la cinta

Esta unidad posee un mecanismo de selección automática de la cinta que distingue los diferentes tipos de cinta por medio de orificios de detección en el cassette. Después de haber detectado el tipo de cinta, la unidad establece la polarización y equalización adecuadas para la cinta.

Cassettes con orificios de detección:

Cinta de metal (EQ: 70 μ s) Tipo IV
Cinta de CrO₂ (cromo) (EQ: 70 μ s) Tipo II

Cassettes sin orificios de detección:

Cinta normal (EQ: 120 μ s) Tipo I

Nota:

Se l'alimentazione viene disattivata durante lo scorrimento del nastro, potrebbe essere impossibile rimuovere la cassetta. Se ciò dovesse accadere, riattivare l'alimentazione prima di riprovare a rimuovere la cassetta.

Mecanismo per la selección automática del tipo de nastro

Questa unità possiede un meccanismo per la selezione automatica del tipo di nastro che è in grado di rilevare automaticamente il tipo di nastro utilizzato per mezzo dei fori appositi sulla cassetta.

Una volta rilevato il tipo di nastro, la polarizzazione e l'equalizzazione adatta a tale tipo di nastro vengono impostate automaticamente.

Cassette con fori di identificación:

Nastro Metal (EQ: 70 μ s) Tipo IV
Nastro CrO₂ (cromo) (EQ: 70 μ s) Tipo II

Cassette sin fori de identificación:

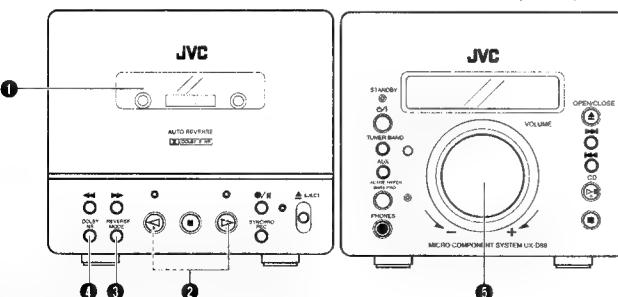
Nastro normal (EQ: 120 μ s) Tipo I

CASSETTE PLAYBACK**REPRODUCCION DE CASSETTES****RIPRODUZIONE DI CASSETTE**

Operate in the order shown

Operar en el orden mostrado

Eseguire le operazioni nell'ordine indicato



- Load a cassette tape with side A facing out.
- Press to start playback. (The power is switched on and the TAPE mode is engaged to start tape playback.)
- Select the reverse mode (\rightarrow / \leftarrow / $\rightarrow\leftarrow$).
- Set the DOLBY NR switch as required.
- Adjust.

- Colocar un cassette de cinta con el lado A apuntando hacia afuera.
- Presionelo para iniciar la reproducción. (Se conecta la alimentación y se activa el modo TAPE para iniciar la reproducción de la cinta).
- Selección el modo de inversión (\rightarrow / \leftarrow / $\rightarrow\leftarrow$).
- Colocar el comutador DOLBY NR como sea necesario.
- Ajuste.

- Inserire una cassetta col lato A rivolto all'esterno.
- Premere il tasto di riproduzione. (L'unità si accende e il modo TAPE viene impostato, attivando il registratore a cassette).
- Selezionare il modo auto reverse (\rightarrow / \leftarrow / $\rightarrow\leftarrow$).
- Portare il selettori DOLBY NR nella posizione adatta.
- Regolare.

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- After loading a cassette tape, simply press the \rightarrow or \leftarrow button. The power is switched on and the tape starts playback.

- When the tape plays back with the reverse mode set to \rightarrow (single side play) or \leftarrow (both side play) mode, the tape stops automatically at the end of tape after playing one or both sides. When the reverse mode is set to the $\rightarrow\leftarrow$ (continuous play) mode, the tape continuously plays one side after the other until you stop operation.

- Después de colocar un cassette de cinta, simplemente presione el botón \rightarrow o el \leftarrow . Se conecta la alimentación y la cinta comienza a ser reproducida.

- La cinta está siendo reproducida en el modo de inversión colocado en el modo \rightarrow (reproducción de un solo lado) o en el modo \leftarrow (reproducción de ambos lados), la cinta se detiene automáticamente al fin de la misma después de la reproducción de uno o ambos lados. Cuando se activa el modo de inversión en el modo $\rightarrow\leftarrow$ (reproducción continua), la cinta es reproducida continuamente de ambos lados hasta que usted pare la operación.

- Dopo aver inserito una cassetta, premere semplicemente il tasto \rightarrow o \leftarrow . L'alimentazione viene attivata e la riproduzione del nastro inizia.

- Quando il nastro viene riprodotto col modo di autoreverse impostato su \rightarrow (riproduzione di un solo lato) o su \leftarrow (riproduzione di entrambi i lati), la riproduzione del nastro si interrompe automaticamente alla fine del nastro dopo aver riprodotto un lato oppure entrambi i lati rispettivamente. Se viene scelto il modo di scorrimento in direzione inversa $\rightarrow\leftarrow$ (riproduzione continua), la riproduzione dei due lati della cassetta continua senza fine sino a che non viene interrotta dall'utente.

Scansione dei brani

- L'inizio del brano attuale e del brano successivo può venire facilmente localizzato facendo uso di questa conveniente funzione.

Music Scan

- The beginning of the current tune or the next tune can be located using the music scan function.

① Press the \rightarrow or \leftarrow button for tape playback.

② Press the \gg or \ll button for music scan.

Búsqueda de música

- Utilizando la función de búsqueda de música es posible ubicar el principio de la música actual o de la próxima.

① Para reproducir la cinta presione el botón \rightarrow o \leftarrow .

② Para buscar una música presione el botón \gg o \ll .

(Forward (\rightarrow) direction playback)
(Reproducción en la dirección de avance (\rightarrow))
(Riproduzione in direzione normale (\rightarrow))

(Reverse (\leftarrow) direction playback)
(Reproducción en la dirección inversa (\leftarrow))
(Riproduzione in direzione inversa (\leftarrow))

③ When the specified tune is located, playback will start automatically.

• To skip two or more tunes, repeat steps ② and ③ above.

- To the start of the next tune
• Hacia el comienzo de la próxima melodía.
• Per portarsi all'inizio del brano successivo
- To the start of the tune being played back
• Hacia el comienzo de la melodía reproducida.
• Per portarsi all'inizio del brano attuale

The tape direction indicator blinks twice, repeatedly, during music scanning.
El indicador de dirección de la cinta parpadea dos veces, repetidamente, durante la búsqueda de música.
L'indicatore della direzione del nastro lampeggia due volte ripetutamente, durante la scansione musicale.

① La reproducción se inicia automáticamente cuando localiza la canción deseada.

• Para saltar dos o más canciones repita los pasos ② y ③ de arriba.

③ Trovato il brano cercato, la riproduzione ha inizio automaticamente.

• Per evitare due o più brani, ripetere le fasi ② e ③ appena descritte.

Notas:

Con los siguientes tipos de cinta, la función de búsqueda de música puede no funcionar correctamente. Esto no es una falla, utilice la función de búsqueda de música solo con las cintas adecuadas.

- Cintas con pasajes muy quietos (muy suaves) o sin grabación alguna.
- Cintas con secciones cortas sin grabar.
- Cintas con alto nivel de ruido o zumbido entre tunes.

DOLBY NR system

- Set the DOLBY NR as required. The DOLBY B NR indicator lights.

Note:

The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

La calidad óptima de sonido no podrá ser obtenida si se utilizan diferentes ajustes de DOLBY NR para la grabación y para la reproducción.

Sistema DOLBY NR

- Coloque el DOLBY NR como deseé. Se encenderá el indicador DOLBY B NR.

Nota:

Se nel corso della riproduzione viene usato un modo DOLBY NR diverso da quello usato per la registrazione, il suono ottenuto non sarà normale.

• All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

• Todas las estaciones preseleccionadas se borran cuando se desconecta el cordón de alimentación u ocurre un corte de energía de más de 24 horas. En tales casos almacene las estaciones otra vez.

• Tutte le stazioni preselezionate vengono cancellate se il cavo di alimentazione viene cancellato oppure se si verifica un'interruzione di corrente per più di 24 ore. In tali casi eseguire nuovamente la memorizzazione delle stazioni.

Preset tuning (Using the remote control unit)

- The stations must be preset before this operation can be performed.
- ① Press the TUNER/BAND button.
- ② Select the band using the TUNER/BAND button.
- ③ Press the PRESET TUNING button to select the required preset station.
- (or) Press the required preset station buttons (No. 1 - No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

FM: Connect the provided FM feeder antenna (see page 6).
AM (MW/LW): Adjust the position of AM (MW/LW) loop antenna.

Presintonización (Utilizando la unidad de control remoto)

- Las estaciones deben ser preseleccionadas antes de que se pueda ejecutar esta operación.

- ① Presione el botón TUNER/BAND.
- ② Seleccione la banda utilizando el botón TUNER/BAND.
- ③ Presione el botón PRESET TUNING para seleccionar la estación preseleccionada deseada.
- (o) Presione los botones (No. 1 - No. 10, +10) de la estación preseleccionada deseada.
- En el visor aparecen el número de estación preseleccionada y la frecuencia correspondiente al botón presionado.

Utilización de antenas

FM: Conecte la bajada de antena FM suministrada (ver página 6).
AM (OM/OL): Ajuste la posición de la antena de cuadro de AM (OM/OL).

Sintonizzazione stazioni preselezionate (Utilizzando l'unità di telecomando)

- Le stazioni devono essere preselezionate prima di poter eseguire questa operazione.

- ① Premere il tasto TUNER/BAND.
- ② Selezionare la banda utilizzando il tasto TUNER/BAND.
- ③ Premere il tasto PRESET TUNING per scegliere la stazione preselezionata desiderata.
- (o) Premere il tasto della stazione preselezionata desiderata (No. 1 - No. 10, +10).
- Il numero della stazione preselezionata e la frequenza corrispondenti al tasto premuto vengono visualizzati.

Uso delle antenne

FM: Collegare l'antenna FM a platina in dotazione (vedi pag. 6).
AM (MW/LW): Regolare la posizione dell'antenna AM (MW/LW) ad anello.

RECORDING



GRABACION

- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

Note:
This unit has recording characteristics suitable for normal and CrO₂ tapes. Normal and CrO₂ tapes have different characteristics from metal tapes.

Nota:
Esta unidad posee características de grabación adecuadas para cintas normales y de CrO₂. Las cintas normales y de CrO₂ tienen características diferentes que las cintas de metal.

Synchronized recording with the CD player

- In this system, the CD player starts play when the cassette deck enters the recording mode.

Grabación sincronizada con el reproductor de CD

- En este sistema el reproductor de CD inicia la reproducción cuando la platina de cassette ingresa en el modo de grabación.

REGISTRAZIONE

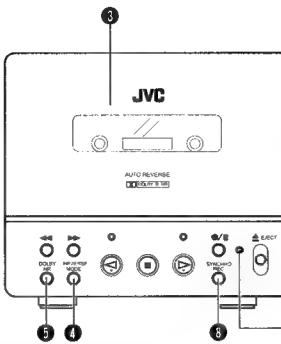
- Durante la grabación, el circuito ALC (control automático del nivel) optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Verifique que la lengüeta de seguridad del cassette de cinta no esté rota.

Nota:
Questa unità possiede caratteristiche di registrazione adatte per nastri normali e CrO₂. I nastri normali e CrO₂ possiedono caratteristiche diverse da quelle dei nastri Metal.

Registrazione sincronizzata col lettore CD

- In questo modo di funzionamento, il lettore CD inizia la riproduzione quando il registratore entra nel modo di registrazione.

Operate in the order shown



Recording Indicator
Indicador de grabación
Indicazione di registrazione

- Load a CD and close the CD holder. (The power is switched on.)
- ② Set to the CD mode.
- ③ Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- ④ Select the required reverse mode (normal or reverse).
- ⑤ Set the DOLBY NR switch as required.
- ⑥ When programmed play is required, program the required tracks using the remote control. (See page 19.)
- Select tracks with a total playing time which does not exceed the tape length.
- ⑦ When recording a CD in repeat play mode, set as required.
- ⑧ Press the SYNCHRO REC button; synchronized recording will start. (The recording indicator lights up.)
- Recording starts in the forward direction and CD play starts automatically.

After the CD player has played the entire CD or programmed tracks, the deck stops automatically.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the ■/clear button of the CD player. The cassette deck also stops after 4 seconds.

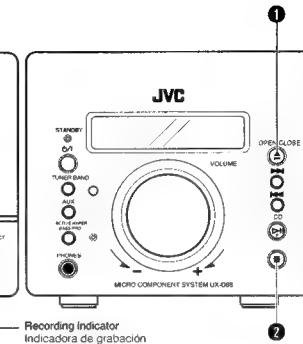
Note:
• During CD syncro recording, the ▶/II and SEARCH (◀, ▶) buttons do not function.

When non-recorded section between tunes is not required ...

- ① Press the ▶/II button of the CD player twice. The CD Player enters the pause mode.
- ② Press the SYNCHRO REC button to start recording.

Note:
• Depending on the CD used, non-recorded sections of different lengths may be left between tunes.

Operate en el orden mostrado



Recording Indicator
Indicador de grabación
Indicazione di registrazione

- Inserire un CD e chiudere il piatto del CD. (L'alimentazione viene attivata).
- ② Impostare il modo del CD.
- ③ Inserire una cassetta col lato A rivolto all'esterno. (Superare la sezione guida del nastro prima di avviare la registrazione).
- ④ Selezionare il modo autoreverse desiderato (normal o reverse).
- ⑤ Portare il selettori DOLBY NR nella posizione adatta.
- ⑥ Per la riproduzione programmata, programmare i brani richiesti col telecomando. (Consultare a proposito pag. 19.)
- Selezionare le pistas con un tempo totale di reproducción que no excede la longitud de la cinta.
- ⑦ Cuando graba un CD en el modo de reproducción repetida, ajuste como sea necesario.
- ⑧ Presione el botón SYNCHRO REC; se inicia la grabación sincronizada. (Se enciende la luz indicadora de grabación)
- La grabación se inicia hacia adelante y se inicia automáticamente la reproducción del CD.

Después de que el reproductor de CD termina de reproducir todo el CD o las pistas programadas, la platina se detiene automáticamente.

- En la cinta quedan automáticamente sin grabar secciones de 4 segundos aprox.
- Para parar la grabación en la mitad, presione el botón (■) parada/borrado del reproductor de CD. La platina de cassette también para después de transcurridos 4 segundos.

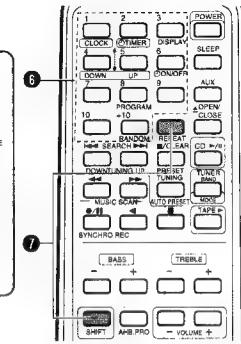
Nota:
• Durante la grabación sincronizada de CD, los botones ▶/II y SEARCH (◀, ▶) no funcionan.

Cuando no es necesario dejar espacios sin grabar entre músicas...

- ① Presione dos veces el botón ▶/II del reproductor de CD. El reproductor ingresa en el modo de pausa.
- ② Para iniciar la grabación presione el botón SYNCHRO REC.

Nota:
• Dependiendo del CD utilizado es posible dejar entre músicas secciones sin grabar de diferentes longitudes.

Eseguire le operazioni nell'ordine indicato



- Inserire un CD e chiudere il piatto del CD. (L'alimentazione viene attivata).
- ② Impostare il modo del CD.
- ③ Inserire una cassetta col lato A rivolto all'esterno. (Superare la sezione guida del nastro prima di avviare la registrazione).
- ④ Selezionare il modo autoreverse desiderato (normal o reverse).
- ⑤ Portare il selettori DOLBY NR nella posizione adatta.
- ⑥ Per la riproduzione programmata, programmare i brani richiesti col telecomando. (Consultare a proposito pag. 19.)
- Selezionare le pistas con un tempo totale di reproducción que no excede la longitud de la cinta.
- ⑦ Per registrare un CD nel modo di ripetizione della riproduzione seguirà queste istruzioni.
- ⑧ Premere il tasto SYNCHRO REC; la registrazione sincronizzata inizia. (L'indicazione di registrazione si illumina).
- La registrazione inizia nella direzione in avanti e la riproducción del CD inizia automaticamente.

Dopo che il lettore CD ha riprodotto l'intero CD o i brani programmati, il registratore si ferma automaticamente.

- Degli spazi non registrati di circa 4 secondi vengono creati automaticamente tra i brani.
- Per interrompere la registrazione, premere il tasto arresto/cancellazione (■) del lettore CD. Il registratore a cassette si ferma a sua volta dopo 4 secondi.

Nota:
• Durante la registrazione sincronizzata, i tasti ▶/II SEARCH (◀, ▶) non funzionano.

Quando sezioni non registrate tra i brani non sono necessarie ...

- ① Premere due volte il tasto ▶/II del lettore CD. Il lettore CD entra nel modo di pausa.
- ② Premere il tasto SYNCHRO REC per avviare la registrazione.

Nota:
• A seconda del CD utilizzato, degli spazi non registrati di lunghezza diversa possono essere lasciati tra i brani.

- CD complete recording function (Synchro recording mode only)
If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:

• When less than 12 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous track.

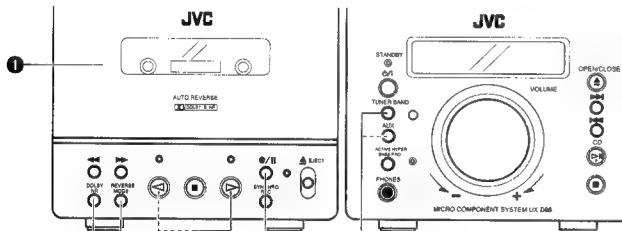
• When more than 12 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current track.

- To record an entire disc in the track order of the CD
After the operations in steps ①-④ above, press the **▷/II** button of the CD player after the **③/II** and **▷** buttons have been pressed.

- To record one track
Play the track to be recorded. Then pressing the **SYNCHRO REC** button locates the beginning of the track and enter the one track recording mode. After the recording is finished, the CD player and cassette deck both stop.

Recording from the radio or an external source connected to the AUX terminals

Operate in the order shown



- ① Load a cassette with side A facing out.
(Wind past the tape leader before starting recording.)
- ② Select the source to be recorded.
TUNER: Press the TUNER/BAND button.
AUX: Press the AUX button.
- ③ Select the required reverse mode (↔ or ↔↔).
- ④ Set the Dolby NR switch as required.
- ⑤ Press the **③/II** button (recording-pause mode).
• The tape direction indicator blinks.
• The function switch is locked and its position cannot be changed.
- ⑥ Press to start recording.

- ⑦ To stop recording temporarily, press the **③/II** button. To resume recording, press the **▷** or **↔** button corresponding to the tape direction indicator which is blinking.

- Función de grabación del CD completo (modo de grabación sincronizada exclusivamente)
Si la cinta es invertida mientras el CD está siendo reproducido, la grabación se efectuará en el lado opuesto de la cinta, de la siguiente manera:

• Cuando se hayan grabado menos de 12 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista anterior.

• Cuando se hayan grabado más de 12 segundos de la última pista en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista actual.

- Para grabar todas las canciones en el mismo orden que están en el CD
Después de finalizar los procedimientos de los pasos ①-④ mencionados, presione el botón **▷/II** del reproductor de CD luego de presionar los botones **③/II** y **▷**.

- Grabación de una sola pista
Reproduzca la pista a ser grabada. Luego presionando el botón **SYNCHRO REC** ubique el principio de la pista y active el modo de grabación de una sola pista.
Después de terminar la grabación, el reproductor de CD y la platina de cassette pararán.

Grabación desde la radio o desde una fuente externa conectada a los terminales AUX

Operate en el orden mostrado

- Funzione di registrazione completa del CD (solo nel modo di registrazione sincronizzata)
Se la direzione del nastro viene invertita durante la riproduzione del CD, la registrazione viene eseguita sul lato opposto nel modo seguente:

• Se sono stati registrati meno di 12 secondi dell'ultimo brano sul lato anteriore del brano, la registrazione sul lato opposto del nastro inizierà dall'inizio del brano precedente.

• Se sono stati registrati più di 12 secondi dell'ultimo brano sul lato anteriore del brano, la registrazione sul lato opposto del nastro inizierà dall'inizio del brano in corso di riproduzione.

- Per registrare un intero CD con i brani nel loro ordine originale
Eseguire le operazioni da ① a ④ appena viste, premere il tasto ①-④ del lettore CD dopo di quello ③/II e di quello ④.

- Registrazione di un brano
Riprodurre il brano da registrare, quindi premere il tasto **SYNCHRO REC** per trovare l'inizio del brano e impostare il modo di registrazione di un brano.
Terminata la registrazione, il lettore CD ed il registratore a cassette si fermano.

Registrazione della radio o del componente collegato ai terminali AUX

Eseguire le operazioni nell'ordine indicato

Erasing

A recorded tape can be erased by recording new material over the previous material.

To erase a tape without making a new recording...

Press the **■** (stop) button to set to the TAPE mode, then perform recording.
(After pressing the **③/II** button press the **↔** or **▷** button.)

Note:
When erasing a tape, turn the DOLBY NR off.

Borrado

La cinta grabada puede ser borrada grabando otro material sobre el material anterior.

Para borrar una cinta sin efectuar una nueva grabación...

Presione el botón **■** (parado) para activar el modo TAPE, luego efectúe la grabación.
(Después de presionar el botón **③/II**, presione el botón **↔** o **▷**.)

Nota:
Cuando borra una cinta, desconecte el DOLBY NR.

Cancellazione

Un nastro registrato può essere cancellando eseguendo una nuova registrazione sopra a quella precedente.

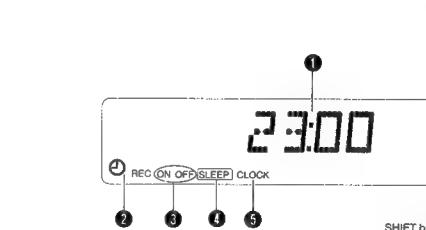
Per cancellare un nastro senza eseguire una nuova registrazione...

Premere il tasto **■** (arresto) per impostare il modo TAPE e quindi eseguire la registrazione.
(Dopo aver premuto il tasto **③/II**, premere quello **↔** o quello **▷**.)

Note:
Disattivare il sistema DOLBY NR quando si cancella un nastro.

CLOCK ADJUSTMENT

(Using the remote control unit)
Names of parts in the clock/timer section, and their functions:



- ① Time display
- ② Timer mode indicator
- ③ Timer indicator (ON/OFF)
- ④ SLEEP indicator
- ⑤ CLOCK indicator
- ⑥ SLEEP button

Press the following buttons while holding down the SHIFT button:

- ⑦ CLOCK button
- ⑧ (⑨) TIMER button
- ⑩ DOWN/UP buttons
- ⑪ Timer (⑫) ON/OFF button

AJUSTE DEL RELOJ

(Utilizando la unidad de control remoto)
Nombre de las partes de la sección del reloj/temporizador y sus funciones:



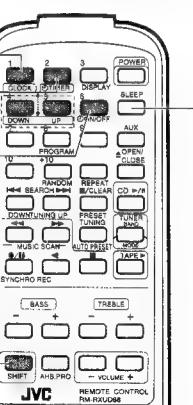
- ① Indicación de hora
- ② Indicador del modo de temporizador
- ③ Indicador de activación/desactivación (ON/OFF) del temporizador
- ④ Indicador SLEEP
- ⑤ Indicador reloj (CLOCK)
- ⑥ Botón del temporizador de desconexión (SLEEP)

Presione los siguientes botones mientras mantiene presionado el botón SHIFT.

- ⑦ Botón del reloj (CLOCK)
- ⑧ Botón del temporizador ((⑨) TIMER)
- ⑩ Botones arriba/abajo (DOWN/UP)
- ⑪ Botón (⑫) de activación/desactivación (ON/OFF) del temporizador

REGOLAZIONE OROLOGIO

(Utilizzando l'unità di telecomando)
Nome e funzioni delle varie parti dell'orologio e del timer:



- ① Display orario
- ② Indicatore modo timer
- ③ Indicatore timer (ON/OFF)
- ④ Indicatore SLEEP
- ⑤ Indicatore orologio (CLOCK)
- ⑥ Tasto spegnimento automatico (SLEEP)

Premere i tasti seguenti mentre si tiene premuto il tasto SHIFT.

- ⑦ Tasto orologio (CLOCK)
- ⑧ Tasto timer (⑨) (TIMER)
- ⑩ Tasto spostamento basso/alto (DOWN/UP)
- ⑪ Tasto attivazione/disattivazione timer (⑫) (ON/OFF)

Setting the current time (when this unit is used for the first time)
(Example: To set the clock to 13:15.)

Ajuste de la hora actual (cuando se usa la unidad por primera vez)
(Ejemplo: Para ajustar el reloj a las 13:15.)

Impostazione dell'orario corrente (quando l'unità viene usata per la prima volta)
(Esempio: Per regolare l'orologio sulle 13:15.)

- ① Connect the AC power cord; "CLOCK" will blink in the display.
- ② Press the CLOCK button while pressing the SHIFT button.
- ③ Set to 13:15 by pressing the UP/DOWN buttons while pressing the SHIFT button.
(When the buttons are kept pressed, the minute/hour indication changes continuously.)
- ④ Press the CLOCK button while pressing the SHIFT button.

- To set to the nearest second...
Press the CLOCK button while pressing the SHIFT button when you hear the time signal from a TV or radio.

Notes:
• Before performing timer recording or playback, it is necessary to set the current time.
• It is recommended to set the current time with the \odot/I button set to STANDBY so that the current display mode is maintained.
• When the power cord is plugged in again after being disconnected or power is restored after a power failure, "CLOCK" will blink in the display. Set the current time again.

- ① Conecte el cordón de CA; "CLOCK" parpadeará en el visor.
- ② Presione el botón CLOCK al mismo tiempo que mantiene presionado el botón SHIFT.
- ③ Coloque en 13:15 presionando los botones UP/DOWN mientras presiona el botón SHIFT.
(Cuando se mantienen presionados los botones, la indicación de minutos/horas cambia continuamente.)
- ④ Presione el botón CLOCK al mismo tiempo que mantiene presionado el botón SHIFT.

- Ajuste de los segundos...
Presione el botón CLOCK al mismo tiempo que presiona el botón SHIFT cuando escucha la señal de la hora del TV o de la radio.

Notas:
• Antes de efectuar la grabación o la reproducción col timer es necesario establecer la hora actual.
• Se recomienda ajustar la hora actual con el botón \odot/I colocado en STANDBY para conservar el modo de indicación actual.
• Cuando se conecta el cordón de alimentación después de haberlo desconectado o cuando vuelve la energía después de un corte de la misma, "CLOCK" parpadeará en el visor. Ajuste otra vez la hora actual.

- ① Collegare il cavo di alimentazione.
L'indicazione "CLOCK" lampeggiava sul display.
② Premere il tasto CLOCK mentre si tiene premuto il tasto SHIFT.
- ③ Impostare sulle 13:15 premendo i tasti UP/DOWN mentre si tiene premuto il tasto SHIFT.
(Quando i tasti vengono tenuti premuti, l'indicazione dei minuti/ora cambia continuamente).
- ④ Premere il tasto CLOCK mentre si tiene premuto il tasto SHIFT.

- Predisposizione con precisione al secondo...
In concomitanza con un segnale orario dalla televisione o dalla radio, premere il tasto CLOCK mentre si tiene premuto il tasto SHIFT.

Note:
• Prima di eseguire la registrazione o la riproduzione col timer è necessario impostare l'ora esatta.
• Si raccomanda di impostare l'ora esatta col tasto \odot/I collocato in STANDBY in modo da mantenere il modo di visualizzazione corrente.
• Quando il cavo di alimentazione viene ricollegato dopo essere stato scollegato oppure quando l'alimentazione viene riattivata dopo un'interruzione di corrente, l'indicazione "CLOCK" lampeggiava sul display. Impostare nuovamente l'ora esatta.

TIMER OPERATIONS

OPERACIONES POR TEMPORIZADOR

FUNZIONAMENTO COL TIMER

(Using the remote control unit)
Setting the timer

- The current time must be set before the timer can be used.
- Press the \odot TIMER button while pressing the SHIFT button.

- Set the start time.
(Example: To set the timer to 12:15.)

(Utilizado la unidad de controlador remoto)
Ajuste del temporizador

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Presione el botón \odot TIMER conjuntamente con el botón SHIFT.

- Ajuste el tiempo de inicio.
(Ejemplo: Para ajustar el temporizador a las 12:15.)

(Utilizzando l'unità di telecomando)
Impostazione del timer

- Prima di poter utilizzare il timer deve essere impostata l'ora esatta.
- Presione el botón \odot TIMER mentre si tiene premuto el tasto SHIFT.

- Impostare l'orario di avvio.
(Esempio: Per impostare il timer sulle 12:15.)

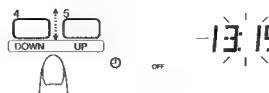
- Press to set the start time.
Presione para fijar la hora de comienzo.
Premere per impostare l'ora di inizio.

- Press to set the start time.
Presione para fijar la hora de comienzo.
Premere per impostare l'ora di inizio.

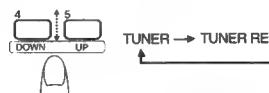
- While pressing the SHIFT button.
Mientras presiona el botón SHIFT.
Mentre si tiene premuto il tasto SHIFT.

- Within the 30 sec.
Dentro de los 30 segundos.
Entro 30 secondi.

Set the stop time.
(Example: To set the timer stop time to 13:15.)



Select the TIMER mode.
• The selected timer mode is shown in the display.



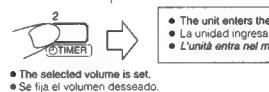
When the UP button is pressed to select the timer mode, the mode changes from TUNER (timer reception of a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

Set the volume.



When the UP button is used to select the volume. Cuando se usa el botón UP para seleccionar el nivel del volumen. Se il tasto UP viene usato per scegliere il volume.

This shows when volume level 1 is selected. Esto se visualizará cuando se selecciona el nivel de volumen 1. Indica se il livello di volume 1 è stato scelto.



- The selected volume is set.
• Se fija el volumen deseado.
• Viene scelto il livello di volume.
- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is at the level used before setting the timer.

To confirm the timer setting

- Each time the \odot TIMER button is pressed while pressing the SHIFT button, the timer setting can be confirmed.
- When the previously engaged mode is displayed, timer setting has been completed.

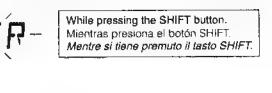
Note:
• When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.

Comprobación del ajuste del temporizador

- Cada vez que se presiona el botón \odot TIMER mientras se presiona el botón SHIFT, es posible confirmar el ajuste del temporizador.
- Cuando se activa el modo anterior, el ajuste del temporizador queda completado.

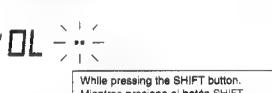
Note:
• Cuando se ajusta el temporizador incorrectamente o no se selecciona el modo correcto, execute el "Ajuste del temporizador", desde el principio.

Impostare l'orario di arresto.
(Esempio: Per impostare il timer sulle 13:15.)



- Press to set the timer off time.
Presione para fijar la hora de desconexión del temporizador.
Premere per impostare l'ora di fine.

Selezionare il modo timer (TIMER).
• El modo de temporizador seleccionado aparece en la indicación.



When the UP button is pressed to select the timer mode, the mode changes from TUNER (mode of timer reception of a broadcast), to TUNER/REC (mode of timer recording of a broadcast), to CD (mode of timer playback of a CD), to TAPE (mode of timer playback of a tape), in this order.

Regolare del volume.



When the UP button is used to select the volume.

Cuando se usa el botón UP para seleccionar el nivel del volumen.

Se il tasto UP viene usato per scegliere il volume.

This shows when volume level 1 is selected. Esto se visualizará cuando se selecciona el nivel de volumen 1. Indica se il livello di volume 1 è stato scelto.



- The unit enters the previously engaged mode and timer setting has been completed.
• La unidad ingresa en el modo previamente activado y el ajuste del temporizador queda completado.
• L'unità entra nel modo precedentemente attivato e l'impostazione del timer è così terminata.

- Si se ajusta el volumen en "VOL -" (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.

Comprobación del ajuste del temporizador

- Cada vez que se presiona el botón \odot TIMER mientras se presiona el botón SHIFT, es posible confirmar el ajuste del temporizador.
- Cuando se activa el modo anterior, el ajuste del temporizador queda completado.

Note:
• Per controllare l'impostazione del timer

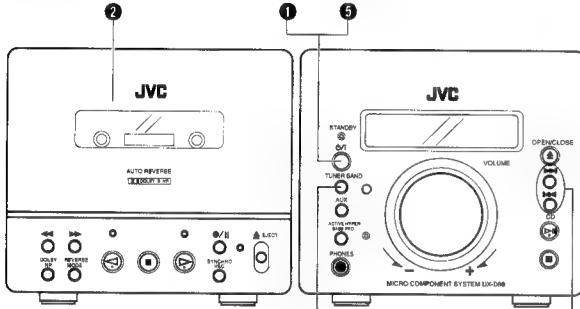
- Per la conferma dei dati predisposti per il timer, premere il tasto \odot TIMER mentre si tiene premuto il tasto SHIFT.

- Quando il modo precedentemente attivato viene visualizzato, l'impostazione del timer è terminata.

Note:
• Quando il timer viene impostato in modo scorretto oppure quando il modo corretto non viene selezionato, eseguire quanto descritto nella sezione "Impostazione del timer" dall'inizio.

Timer recording of broadcast

- The current time must be set before the timer can be used.
- Make sure that the safety tabs of the cassette have not been broken off.

Operations

① Set the \odot/I button to ON.
② Load a cassette.

- Insert the cassette with the side to be recorded facing out.
- Set the reverse mode button to "—" or "--" and set the DOLBY NR button as required.
- Set the timer. (Refer to "Setting the timer" on page 29.)
- Set the timer about a minute before the broadcast to be recorded is scheduled to start.
- Tune to the station to be recorded. (Refer to page 23.)
- Set the \odot/I button to STANDBY.

• Timer recording will start at timer start time and the power will be switched off at timer stop time. (The timer mode indicator \odot goes out.)

• To cancel timer operation
Press the timer \odot ON/OFF button while pressing the SHIFT button so that the timer mode indicator \odot goes out.

If you do this, timer recording will not start at the timer start time.

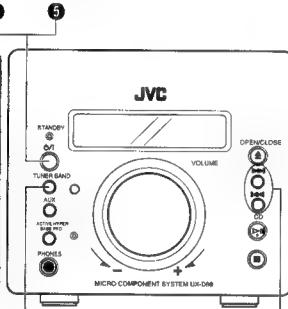
Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the tuner is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Grabación por temporizador de una radiodifusión

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Asegúrese de que las lengüetas de seguridad del cassette no estén rotas.

Operations

① Coloque el botón \odot/I en ON.
② Coloque un cassette.

- Inserte el cassette con el lado a ser grabado apuntando hacia afuera.
- Coloque el botón de modo de inversión en "—" o "--" y ajuste el botón DOLBY NR como deseé.
- Ajuste el temporizador. (Referirse a "Ajuste del temporizador" en la página 29.)
- Ajuste el temporizador a un minuto aproximadamente antes del comienzo programado de la radiodifusión a ser grabada.
- Sintonice la estación a ser grabada. (Referirse a la página 23.)
- Coloque el botón \odot/I en STANDBY.

• La grabación por temporizador se iniciará en la hora de activación del temporizador y la unidad desconecta la alimentación a la hora de parada del temporizador. (El modo del timer viene quindi abbandonato.)

Cancelación de la operación por temporizador

Presione el botón \odot ON/OFF al mismo tiempo que presiona el botón SHIFT para borrar el o indicador de modo de temporizador \odot .

Si usted hace esto, la grabación por temporizador no se iniciará a la hora de activación del temporizador.

Notes:

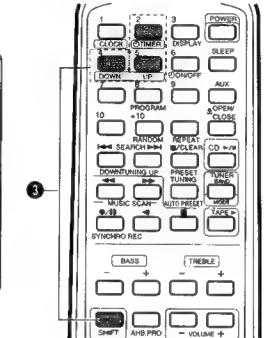
Una vez ajustado el temporizador, la hora de activación y desactivación, etc., son registradas en memoria. Cuando se desea efectuar una grabación o reproducción por temporizador a horas diferentes, es necesario ajustar otra vez el temporizador.

- Después de ajustar la hora de activación y desactivación, etc., del temporizador, verifique que el sintonizador esté sintonizado en la frecuencia deseada.

- Si se desconecta el cordón de alimentación o si hay un corte de energía, los ajustes del temporizador se borran de la memoria. Si ocurre esto, ajuste la hora actual y ajuste el temporizador otra vez.

Registrazione di trasmissioni col timer

- Prima di poter utilizzare il timer deve essere impostata l'ora esatta.
- Accertarsi che le lingue di protezione della registrazione della cassetta non siano state rimosse.

Operazioni

① Coloque el interruptor \odot/I en ON.
② Inserte una cassetta.

- Inserire la cassetta col lato da registrare rivolto all'esterno.
- Impostare il modo autoreverso su "—" o "--" ed il tasto DOLBY NR come necessario.
- Impostare il timer. (Vedi "Impostazione del timer" a pag. 29.)
- Ajuste el temporizador a circa un minuto prima dell'inizio della trasmissione che si desidera registrare.

③ Sintonizzare la stazione che si desidera registrare. (Vedi in proposito pag. 23.)

④ Coloque el interruptor \odot/I en STANDBY.

• La registrazione col timer inizia all'orario di avvio e l'alimentazione viene disattivata all'orario di arresto. (El modo del timer viene quindi abbandonato.)

Per cancellare il funzionamento col timer

Premere il tasto \odot ON/OFF del timer mentre si mantiene premuto SHIFT in modo da far spegnere l'indicatore del modo del timer \odot .

Se questa operazione viene eseguita, la registrazione col timer non si avverà all'orario di avvio del timer.

Notes:

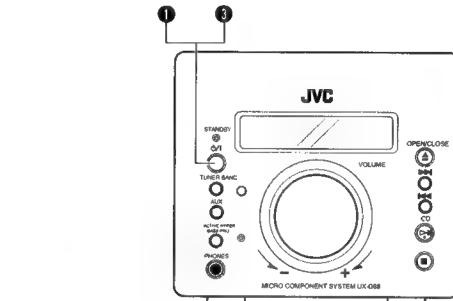
Una volta che il timer è stato impostato, gli orari di avvio e di arresto, ecc., vengono memorizzati. Quando si desidera eseguire la registrazione o la riproduzione ad un orario diverso, il timer deve essere reimpostato.

- Dopo aver impostato gli orari di avvio e di arresto del timer, controllare che il sintonizzatore sia sintonizzato sulla frequenza desiderata.

- Se si desconecta el cordón de alimentación o si hay un corte de energía, los ajustes del temporizador se borran de la memoria. Si ocurre esto, ajuste la hora actual y ajuste el temporizador otra vez.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

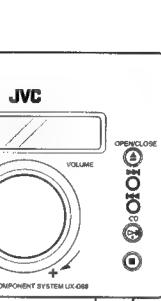
Operations

① Set the \odot/I button to ON.

② Set the timer. (Refer to "Setting the timer" on page 29.)

Reproducción por temporizador

- La reproducción por temporizador de cintas, radiodifusiones, y CD es posible.

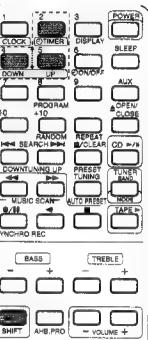
Operaciones

① Coloque el botón \odot/I en ON.

② Ajuste el temporizador. (Referirse a "Ajuste del temporizador" en la página 29.)

Riproduzione col timer

- E' possibile eseguire la riproduzione col timer di nastri, trasmissioni e CD.

Operazioni

① Impostare il tasto \odot/I su ON.

② Impostare il timer. (Vedi "Impostazione del timer" a pag. 29.)

Source sound Fuente sonido Fonte	Timer mode Modo de temporizador Modo di funzionamento	Operations Operaciones Operazioni
CD play Reproducción de CD Riproduzione CD	CD CD CD	Load a disc. Coloque un disco. Inserire un CD.
Tape playback Reproducción de una cinta Riproduzione nastro	TAPE TAPE TAPE	Load a cassette tape. Coloque una cinta de cassette. Caricare una cassetta.
Broadcast Radioemisión Programma radio	TUNER TUNER TUNER	Turn to the required station. Sintonice la estación deseada. Mettere in sintonia la stazione desiderata.

③ Set the \odot/I button to STANDBY.

• Timer playback will start at the timer start time and the power will be switched off at the timer stop time.

The unit remains in the same timer mode even after the power is switched off. The same timer function will repeat at the same time on the following day.

• When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

① Coloque el botón \odot/I en STANDBY.

• La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconecta a la hora de desactivación del temporizador.

La unidad permanece en el mismo modo de temporizador aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el día siguiente.

• Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

② Portare l'interruttore \odot/I su STANDBY.

• La riproduzione col timer inizia all'orario di avvio del timer mentre l'alimentazione viene disattivata all'orario di arresto.

L'unità rimane nello stesso modo del timer anche dopo che l'alimentazione viene disattivata. La stessa funzione del timer viene ripetuta alla stessa ora il giorno seguente.

• Quando l'alimentazione viene iniziata, è possibile eseguire un'apertura in dissolvenza dal livello di volume 0 (zero) al livello impostato.

• Per cancellare il funzionamento col timer
Premere il tasto \odot ON/OFF del timer mentre si mantiene premuto SHIFT in modo da far spegnere l'indicatore del modo del timer \odot .

Notes:

- Quando se ajusta el volumen en "VOL -" (el nivel de volumen no está especificado), el volumen de reproducción por temporizador permanece en el nivel usado antes del ajuste del temporizador.

- Para parar durante la reproducción por temporizador, presione el botón \odot/I para desconectar la unidad.

Sleep timer operations (using the remote control unit)

A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

① Set to the required source and tune (broadcast) or play back (CD or tape).
 ② Press the SLEEP button to set the sleep time.



SLEEP
SLEEP is shown in the display.
Se visualiza [SLEEP] en el display.
L'indicazione [SLEEP] viene visualizzata sul display.

Operación del temporizador de desconexión (utilizando la unidad de control remoto)

A. Utilicelo cuando desee dormir mientras escucha una cinta, radiofusión o CD.

① Ajuste la fuente deseada y sintonice (radiofusión) o reproduzca (CD o cinta).
 ② Presione el botón SLEEP para ajustar el tiempo que va a dormir.



Source mode display (Releasing the sleep mode)
Visualización del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo di spegnimento a tempo)

- Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.
- Los ajustes el tiempo para dormir pueden ser 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP, la fuente viene indicada después de que hayan transcurrido 5 segundos.

- The sleep timer operation will start and the power will be switched off after the specified time.
- **Checking the sleep time**

When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- **To cancel the sleep timer operation**

Press the \odot/I button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

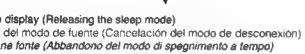
B. To fall asleep while listening to a tape, broadcast or CD and to perform timer playback the following morning

① Set the timer. (Refer to "Setting the timer" on page 29.)
 ② Set to the required source (broadcast, tape or CD).
 ③ Press the SLEEP button to set the sleep time.



B. Para dormir mientras escucha una cinta, radiofusión, o CD y para efectuar la reproducción por temporizado la mañana siguiente

① Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 29.)
 ② Ajuste la fuente deseada (radiofusión, cinta o CD).
 ③ Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.



Source mode display (Releasing the sleep mode)
Visualización del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo di spegnimento a tempo)

- Any source can be selected for sleep timer operation and timer playback. For example:
 - CD play for sleep timer operation and broadcast reception for timer playback.
 - Tape playback for sleep timer operation and CD play for timer playback.

However, when broadcast reception is selected for both sleep timer operation and timer playback, the station you heard at night will be tuned to the following morning.

Para las operaciones del temporizador de desconexión y para reproducción por temporizador es posible seleccionar cualquier fuente. Por ejemplo:

- Reproducción de CD para la operación de temporizador de desconexión y recepción de radiofusión para la reproducción por temporizador.
- Reproducción de cinta para la operación del temporizador de desconexión y reproducción de CD para la reproducción por temporizador.

Si embargo, cuando se selecciona la recepción de radiofusión tanto para el temporizador de desconexión como para la reproducción por temporizador, la estación que usted escucha durante la noche será sintonizada a la mañana siguiente.

Operazioni per lo spegnimento automatico via timer (utilizzando l'unità di telecomando)

A. Utilizzare questa funzione per addormentarsi ascoltando un nastro, una trasmissione o un CD.

① Imposta la fonte desiderata e sintonizza (trasmissioni) o riproduce (CD o cinta).
 ② Premere il tasto SLEEP per impostare l'orario di spegnimento.

- Ajuste la fuente deseada y sintonice (radiofusión) o reproduzca (CD o cinta).
 ② Presione el botón SLEEP para ajustar el tiempo que va a dormir.
- Los ajustes el tiempo para dormir pueden ser 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP, la fuente viene indicada después de que hayan transcurrido 5 segundos.
- Despues de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación es desconectada.

• Verificación del tiempo para dormir

Cuando presiona el botón SLEEP, aparece la indicación del tiempo restante. Si lo presiona otra vez, es posible establecer un nuevo período para dormir.

• Cancelación del temporizador de desconexión

Presione el botón \odot/I para desconectar la alimentación o presione el botón SLEEP hasta que el indicador del tiempo para dormir desaparezca.

B. Per addormentarsi ascoltando una trasmissione, un nastro o un CD ed eseguire quindi la riproduzione col timer la mattina successiva

① Imposta el timer. (Vedi "Impostazione del timer" a pag. 29).
 ② Ajuste la fuente deseada (radiofusión, cinta o CD).
 ③ Presione el botón SLEEP para ajustar el tiempo para lo spegnimento automatico via timer.

- Per lo spegnimento automatico e per la riproduzione col timer è possibile selezionare qualsiasi fonte. Per esempio:
 - Riproduzione di un CD per lo spegnimento automatico e ricezione di una trasmissione per la riproduzione col timer.
 - Riproduzione di un nastro per lo spegnimento automatico e riproduzione di un CD per la riproduzione col timer.

Quando si seleziona la ricezione di trasmissioni sia per lo spegnimento automatico che per la riproduzione col timer, comunque, la stazione sintonizzata per lo spegnimento automatico viene sintonizzata anche per la riproduzione col timer.

MAINTENANCE



Cleaning is Important!

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty...

- Sound quality deteriorates.
- The output sound level drops.
- Previously recorded tape is not completely erased.
- Recording is not performed satisfactorily. Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

Cleaning the heads, capstan and pinch roller

Open the cassette holder.
Clean the heads, pinch roller and capstan. For effective cleaning, use a cleaning kit available from an audio store. After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

MANTENIMENTO

La limpieza es importante!

Cuando la cinta está girando, el polvo magnético y el polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando estén muy sucios...

- La calidad de sonido se deteriora.
- Las cintas grabadas no se borran completamente.
- La grabación no se realiza satisfactoriamente. Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

Limpieza de las cabezas, cabrestante y rodillo de presión

Abra el portacasette.
Limpie las cabezas, rodillo de presión y cabrestante. Para una limpieza efectiva, utilice un conjunto de limpieza disponible en cualquier tienda de audio. Después de la limpieza, asegúrese de que el líquido para la misma se haya secado completamente antes de colocar un cassette.

MANUTENZIONE

La pulizia è estremamente importante!

Quando il nastro scorre, polvere magnetica e sporco si accumulano sulle testine, sui capstan e sui rullini. Quando essi sono troppo sporchi...

- La qualità del suono si deteriora.
- Il livello di uscita cala.

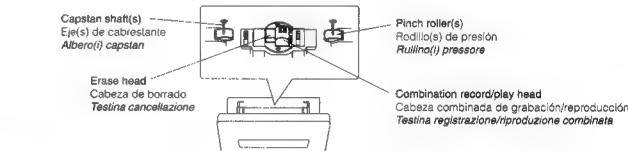
• Registrazioni precedenti non vengono cancellate completamente.

• La registrazione non viene eseguita in modo insoddisfacente. Le testine, ecc., devono perciò essere pulite ogni 10 ore di uso per mantenere condizioni di funzionamento ottimali.

Pulizia di testine, capstan e rullini pressori

Aprire il vano della cassetta.
Pulire testine, rullini pressori e capstan. Per pulire in modo efficace, utilizzare un corredo di pulizia disponibile presso i negozi specializzati.

Dopo la pulizia accertarsi che il liquido pulente si sia asciugato completamente prima di inserire una cassetta.



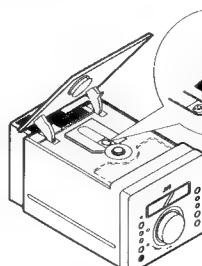
Cautions:

1. Mantenga los imanes y los objetos metálicos lejos de la cabeza.
- If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the \odot/I button should be set to STANDBY.)
2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

Cleaning the lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound. Open the CD holder and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.
- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



Precauciones:

1. No acercar magnets o objetos metálicos alla testina.
- Si la testina se magnetiza, el ruido aumentará y el sonido se deteriorará. Desmagnetizar la cabeza cada 20-30 horas de uso con un desmagnetizador de cabezas (disponible en cualquier tienda de audio). (Cuando se desmagnetiza la cabeza, el botón \odot/I deberá estar colocado en STANDBY).
2. Utilizar solo alcohol para la pulizia. El diluyente y la benzina dañarán el rodillo de presión de goma.

Limpieza de la lente

Si la lente del lector de CD está sucia o manchada, etc., puede degradar el sonido. Abra el compartimiento del CD y limpie la lente como se muestra.

- Utilice un soploador (disponible en una tienda de cámaras), para quitar el polvo de la lente.
- Si hay huellas digitales, etc. en la lente, limpie suavemente con un isopo de algodón.



Pulizia della lente

Se la lente del pickup del lector CD è sporca, ecc., la qualità del suono potrebbe degradare. Aprire il vano del CD e pulire la lente come indicato.

- Utilizzare un soffiatore (reperibile in un negozio di materiale fotografico) per soffiare via la polvere dalla lente.
- Se sulla lente vi sono impronte digitali; ecc., pulire con gentilezza utilizzando un bastoncino ovattato.

TROUBLESHOOTING



What appears to be trouble is not always serious. First make sure...

- Power cannot be turned on.
- Is the power cord unplugged?
- No sound from the speakers.
- Are headphones connected?

CD Player Section

- The CD player does not play.
- Is the CD upside down?
- Is the CD dirty?
- A certain portion of the CD does not play correctly.
- Is the CD scratched?

Cassette Deck Section

- Playback sound is at a very low level.
- Is the head dirty?
- The **REC** button does not function.
- Have the safety tabs of the cassette been broken off?

Tuner Section

- Reception is noisy.
- Try adjusting the antenna.
- Timer operation does not start.
- Is the current time set correctly?
- Is the timer mode (D) displayed?

Remote Control

- Remote control is impossible.
- Are the batteries in the remote control exhausted?
- Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note:

Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

DETECCION DE PROBLEMAS

DIAGNOSTICA

Lo que parece ser un problema no siempre es grave. Primero asegúrese....

- No es posible conectar la alimentación.
- ¿Está el cordón de alimentación desenchufado?
- No sale sonido de los altavoces.
- ¿Están los auriculares conectados?

Sección del reproductor de CD

- El reproductor de CD no funciona.
- ¿Está el CD invertido?
- ¿Está el CD sucio?
- Cierta porción de un CD no es correctamente reproducida.
- ¿Está el CD rayado?

Sección la platina de cassette

- El sonido de reproducción tiene un nivel muy bajo.
- ¿Está la cebolla sucia?
- No funciona el botón **REC**.
- ¿Se han extraído las lengüetas de seguridad del cassette?

Sección del sintonizador

- La recepción es ruidosa.
- Intente ajustar la antena.

Sección del temporizador

- La operación por temporizador no se activa.
- ¿Está la hora actual correctamente ajustada?
- El modo del temporizador (D) viene visualizado?

Controlador remoto

- El controlador remoto no funciona.
- ¿Están las pilas del controlador remoto agotadas?
- ¿Está la sección sensor remoto expuesta a una luz brillante (luz solar directa, etc.)?

Nota:

Antes de efectuar una grabación importante, asegúrese de hacer una grabación de prueba para verificar que la platina, etc. esté funcionando correctamente.

Quanto sembra essere un problema spesso non è nulla di serio. Accertarsi prima di tutto...

- L'alimentazione non può essere attivata.
- Il cavo di alimentazione è scollegato?
- I diffusori non producono alcun suono.
- Le cuffie sono collegate?

Sezione lettore CD

- Il lettore CD non riproduce.
- Il CD è rovescio?
- Il CD è sporco?
- Una parte del CD non viene riprodotta correttamente.
- Il CD è graffiato?

Sezione registratore a cassette

- Il livello del suono riprodotto è molto basso.
- La testina è sporca?
- Il tasto **REC** non funziona.
- Le lingue di protezione della registrazione della cassetta sono state rimossi?

Sezione sintonizzatore

- La ricezione è disturbata.
- Provare ad orientare l'antenna.

Sezione timer

- Il funzionamento col timer non si avvia.
- L'orario corrente è impostato in modo corretto?
- Il modo del timer (D) viene visualizzato?

Telecomando

- Il funzionamento col telecomando è impossibile.
- Le batterie del telecomando sono scariche?
- Il sensore di telecomando è colpito da luce (solare o artificiale) intensa?

Nota:

Prima di eseguire registrazioni importanti, accertarsi di eseguire una registrazione di prova per essere certi che il funzionamento del registratore, ecc., sia corretto.

SPECIFICATIONS

ESPECIFICACIONES

DATI TECNICI

CD player section

Type : Compact disc player
 Signal detection system : Non-contact optical pickup
 Number of channels : 20 Hz - 20,000 Hz
 Frequency response : 20 Hz - 20,000 Hz
 Signal-to-noise ratio : 90 dB
 Wow & flutter : Less than measurable limit

Radio section

Frequency range : FM 87.5-108 MHz
 AM (MW) 522-1,629 kHz
 AM (LW) 144-288 kHz

Antennas : Loop antenna for AM (MW/LW)
 External antenna terminal for FM (75 Ω)

Tape deck section

Track system : 4-track 2-channel stereo
 Motor : Electronic governor DC motor for capstan
 Heads : Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)

Sección del reproductor de CD

Tipo : Reproductor de discos compactos

Sistema de detección de señal : lector óptico sin contacto

Número de canales : 2 canales

Respuesta de frecuencia : 20 Hz - 20,000 Hz

Relación señal-ruido : 90 dB

Fluctuación y tremulación : Menor que el límite medible

Sección de la radio

Sección de la radio : FM 87.5-108 MHz

Límites de frecuencia : AM (MW) 522-1,629 kHz

AM (LW) 144-288 kHz

Antena : Antena ad anello per AM (MW/LW)

Antena de cuadro para AM (OMOL)

Terminal de antena exterior para FM (75 Ω)

Sección de la platina de cinta

Sistema de pistas : 4 pistas 2 canales estereofónicos

Motor : Motor de CC con mandos electrónicos para cabrestante

Cabezas : Cabeza de aleación dura "permalloy" para grabación/ reproducción, cabeza de ferrita de doble entrépido para borrado (Cabeza combinada)

Sezione lettore CD

Tipo : Lettore di CD

Sistema rilevamento segnale : Pickup ottico senza contatto

Número canali : 2 canali

Risposta frequenza : 20 Hz - 20,000 Hz

Rapporto segnale/rumore : 90 dB

Wow & flutter : Meno del limite misurabile

Sezione radio

Gamma frequenza : FM 87.5-108 MHz

AM (MW) 522-1,629 kHz

(LW) 144-288 kHz

Antenna : Antenna ad anello per AM (MW/LW)

Terminal per antenna FM esterna (75 Ω)

Sezione registratore

Sistema registrazione : 4 pistas 2 canali stereo

Motore : Motorino CC controllato elettronicamente per il capstan

Testina : Testina in permalloy duro per registrazione/riproduzione, testina a doppio traietto per cancellazione (Testina combinata)

Frequency response : 40-17,000 Hz (with CrO2 tape)
 Wow & flutter : 0.15% (WRMS)
 Fast wind time : Approx. 130 sec (C-60 cassette)

Speaker Section (each unit)

Speakers (impedance) : Dual 10 cm (Woofer) (8 Ω), 5 cm (Tweeter) (4 Ω)

Dimensions : 155 (W) x 258 (H) x 231 (D) mm

Weight : Approx. 2.8 kg

General

Power output : 50 W (25 W + 25 W) at 4 Ω (Max.)

40 W (20 W + 20 W) at 4 Ω (10% THD)

Input terminals : AUX IN (500 mV/56 kΩ)

PHONE (Output level: 0-10 mW/ch, 32 Ω, Matching impedance: 16 Ω - 1 kΩ)

SPEAKER (Matching impedance: 4 Ω - 16 Ω)

LINE OUT (500 mV/4.9 kΩ)

OPTICAL DIGITAL OUT

AC 230 V, 50 Hz

Power requirements

Power consumption : 46 W (with **REC** button ON)

2.5 W (with **CD** button STANDBY)

Dimensions : 593 (W) x 258 (H) x 274 (D) mm, including knobs

Weight : Approx. 10.2 kg

Accessories provided : Power cord x 1

Remote control unit (RM-RXUD88) x 1

"R6/AA" batteries x 2 (for the remote control)

FM feeder antenna x 1

Loop antenna stand x 1

Speaker cord x 2

Design and specifications are subject to change without notice.

Frequency response : 40-17,000 Hz (with CrO2 tape)
 Wow & flutter : 0.15% (WRMS)
 Fast wind time : 130 sec. approx. (cassette C-60)

Speaker Section (cada unidad)

Altavoces (impedancia) : Dos altavoces de graves de 10 cm (8 Ω), altavoz de agudos de 5 cm (4 Ω)

Dimensions : 155 (A) x 258 (B) x 231 (P) mm

Weight : 2.8 kg. aprox.

Generalidades

Salida de frecuencia : 50 W (25 W + 25 W) a 4 Ω (Max.)

40 W (20 W + 20 W) a 4 Ω (10% THD)

Salida de potencia : 50 W (25 W + 25 W) a 4 Ω (Max.)

40 W (20 W + 20 W) a 4 Ω (10% THD)

Terminales de entrada : AUX IN (500 mV/56 kΩ)

Terminales de salida : Auriculares (PHONES) (Nivel de salida: C-10 mW/16 Ω, impedancia de salida: 16 Ω - 1 kΩ)

Altavoz (SPEAKER) (Impedancia de a. adaptación 4 Ω - 16 Ω)

Salida de línea (LINE OUT) (500 mV/4.9 kΩ)

Salida digital óptica (OPTICAL DIGITAL OUT)

Alimentazione

Consumo : 230 V CA, 50 Hz

Terminali di ingresso : 48 W (con **CD** button ON)

Terminali uscita : 2.5 W (con **CD** button STANDBY)

Dimensioni : 592 (L) x 258 (A) x 274 (P) mm, comandi inclusi

Peso : Circa 10.2 kg

Accessori in dotazione : Cavo alimentazione x 1

Unità telecomando (RM-RXUD88) x 1

Batterie "R6/AA" (15F) x 2 (per unità di telecomando)

Antenna FM a plastica x 1

Banda antena ad anello x 1

Cavo diffusori x 2

Risposta in frequenza: 40-17,000 Hz (con nastro CrO2)
 Wow & flutter : 0.15% (WRMS)

Tempo avvolgimento rapido : Circa 130 secondi (cassette C-60)

Sezione diffusori (per ciascun diffusore)

Diffusori (impedanza) : Doppia da 10 cm (4 Ω)

(8Ω 5Ω/4Ω 4Ω)

Dimensioni : 155 (L) x 258 (A) x 231 (P) mm

Peso : Circa 2.8 kg

General

Potenza in uscita : 50 W (25 W + 25 W) a 4 Ω

(Mass.) 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminali di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminali uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale uscita : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

Terminale di ingresso : 40 W (20 W + 20 W) a 4 Ω

(10% THD)

4. Location of Main Parts

■ Deck & Power Supply Unit

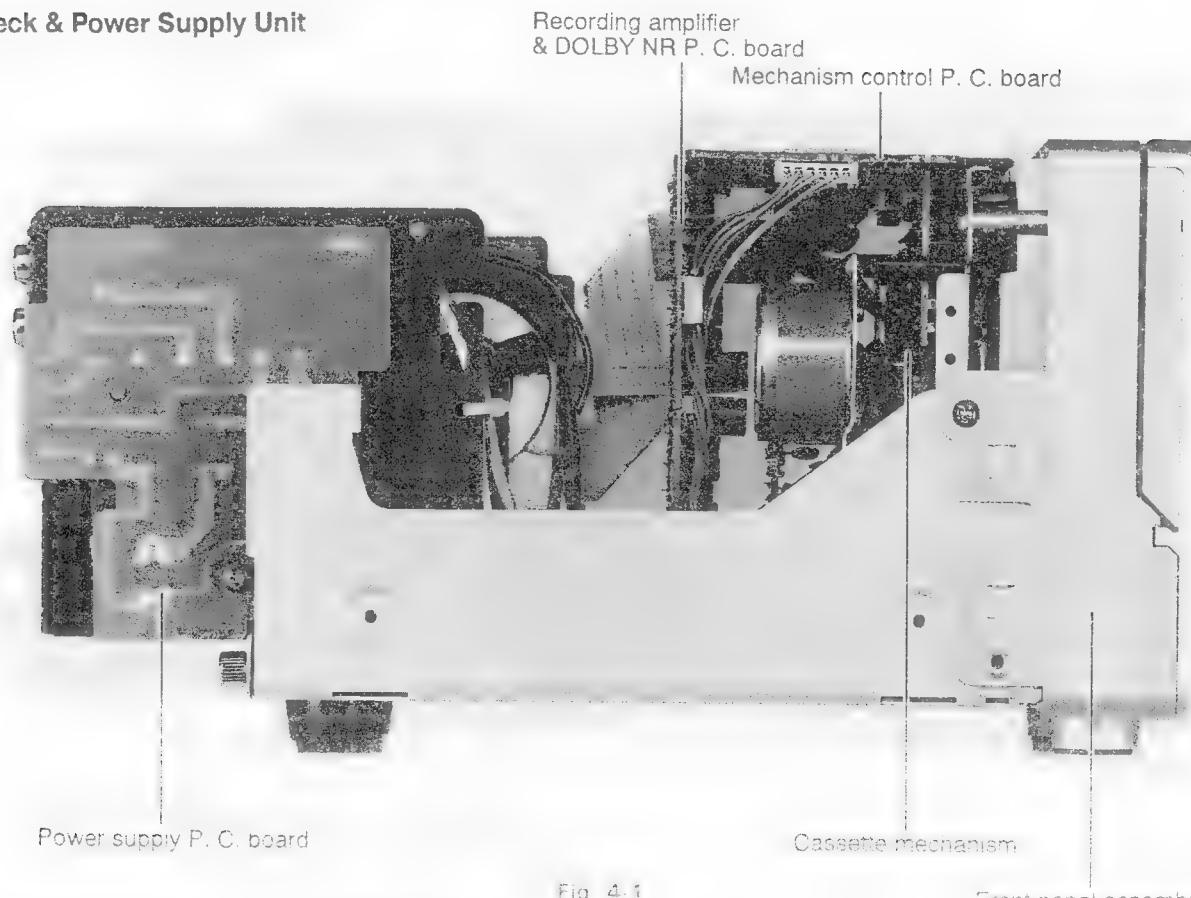


Fig. 4-1

Front panel assembly

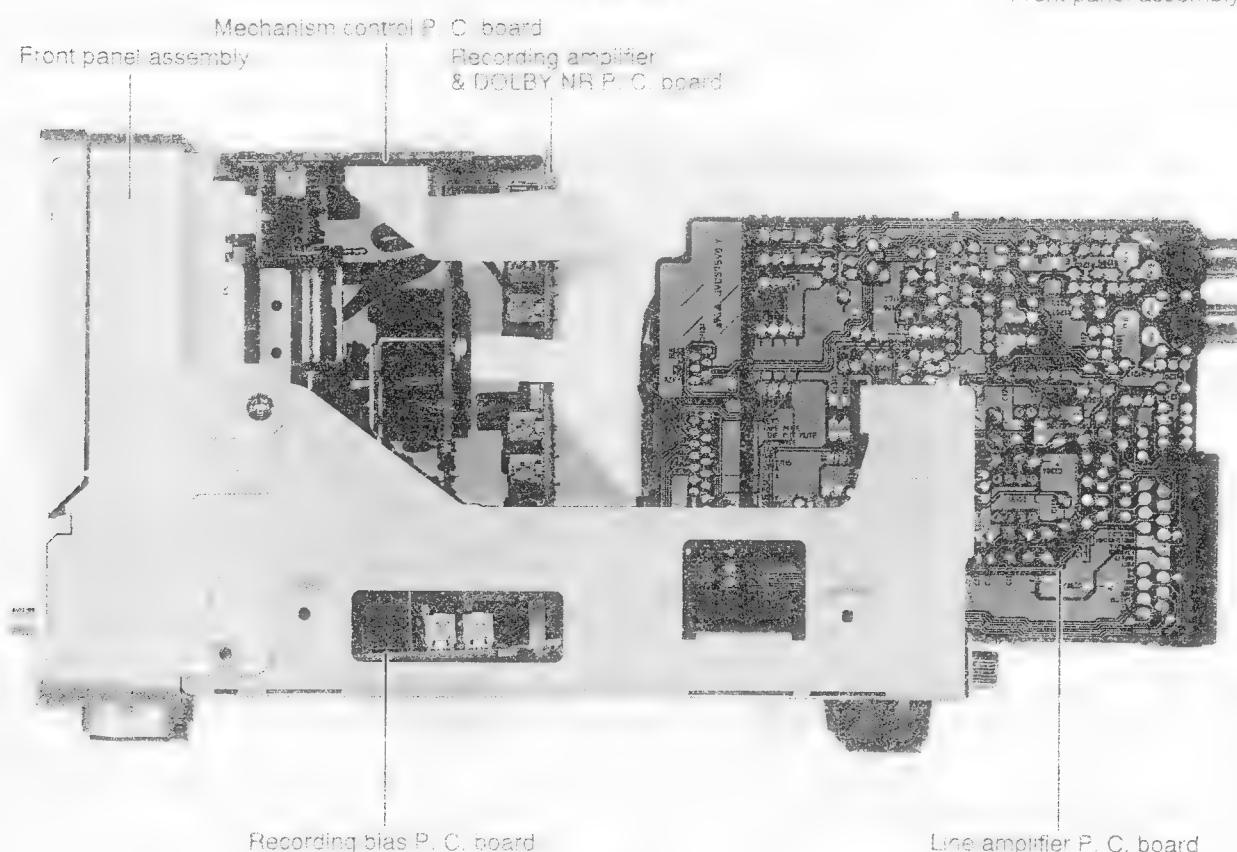


Fig. 4-2

(No. 10030) 23

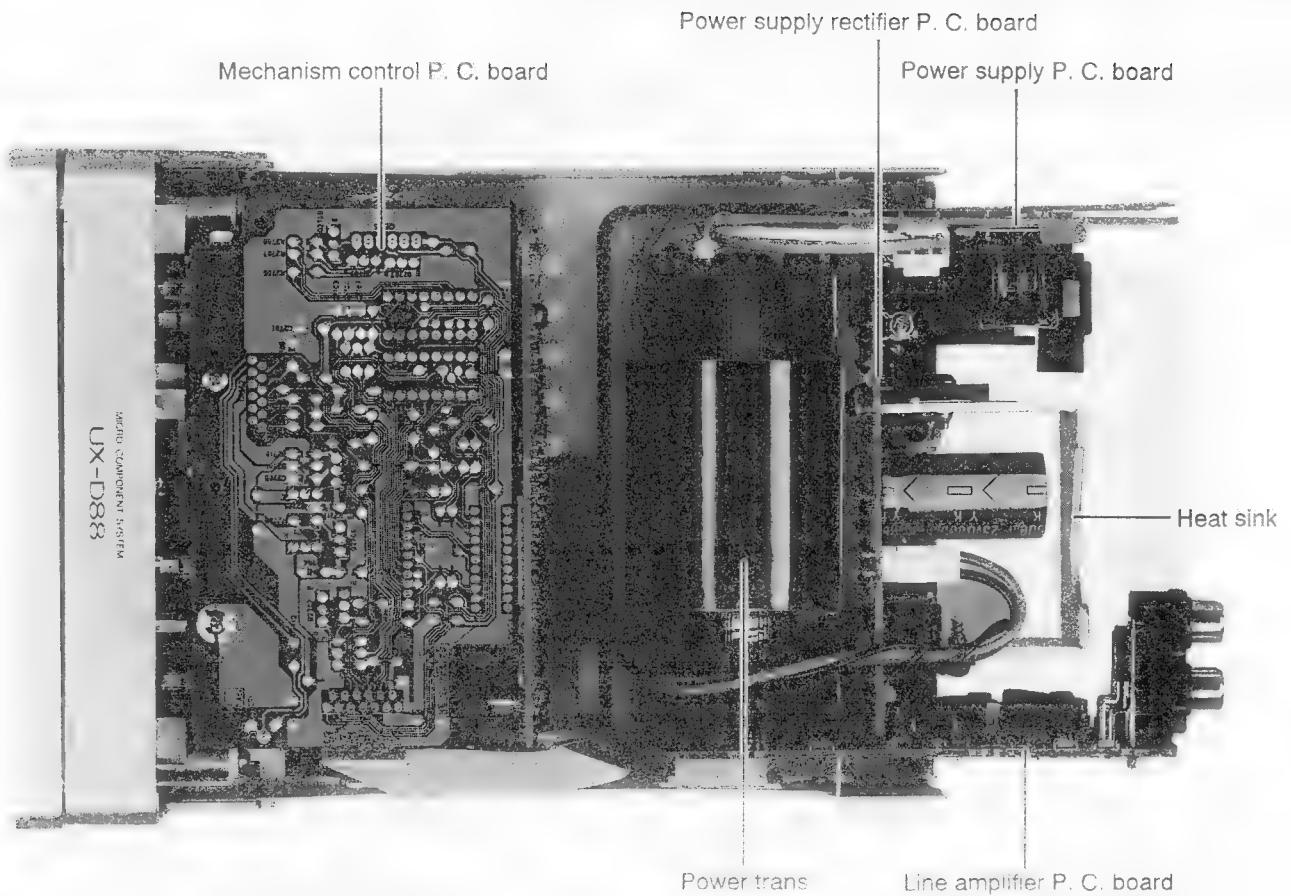


Fig. 4-3

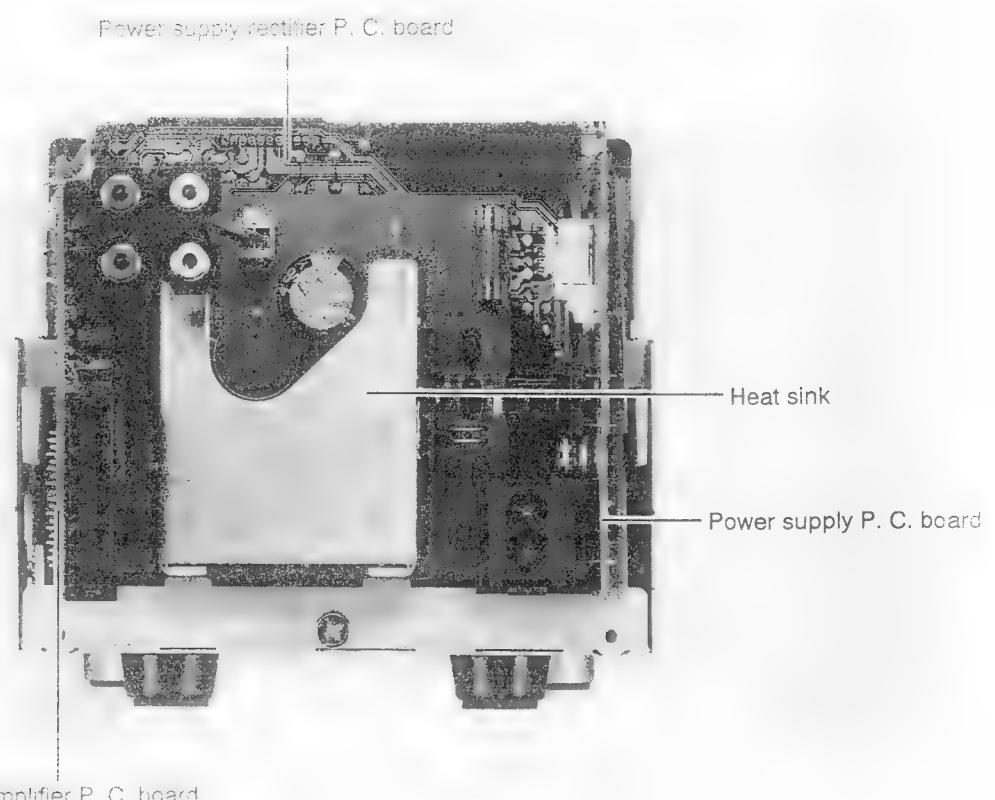


Fig. 4-4

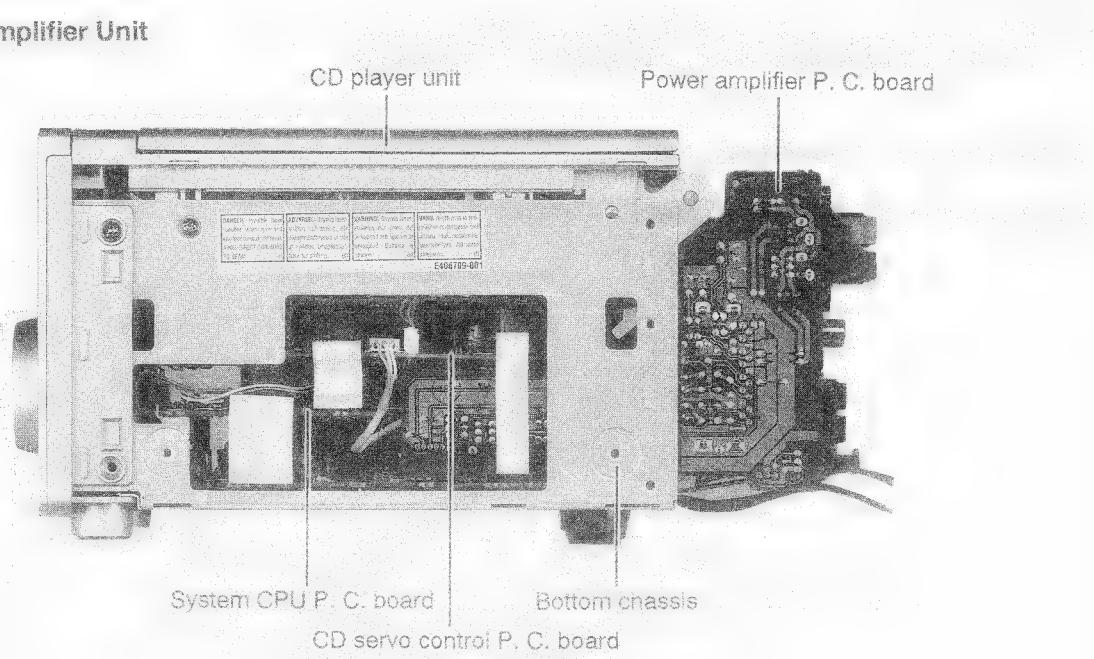
■ CD/ Tuner & Amplifier Unit

Fig. 4-5

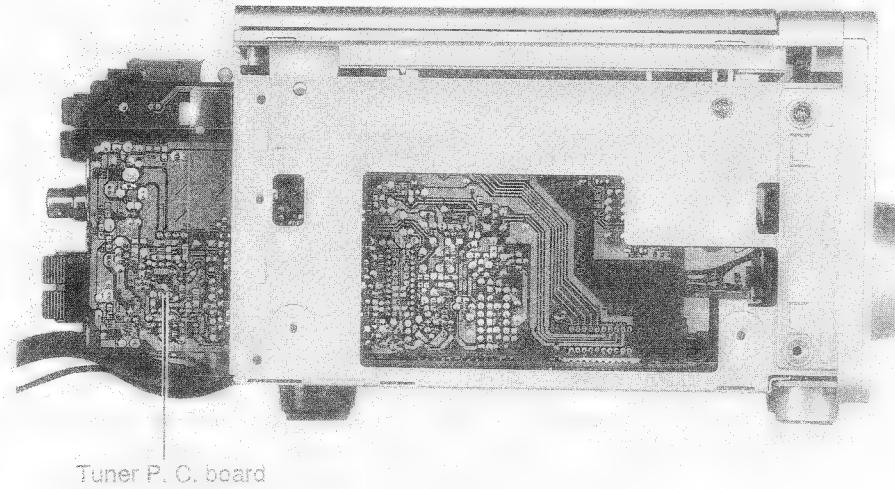


Fig. 4-6

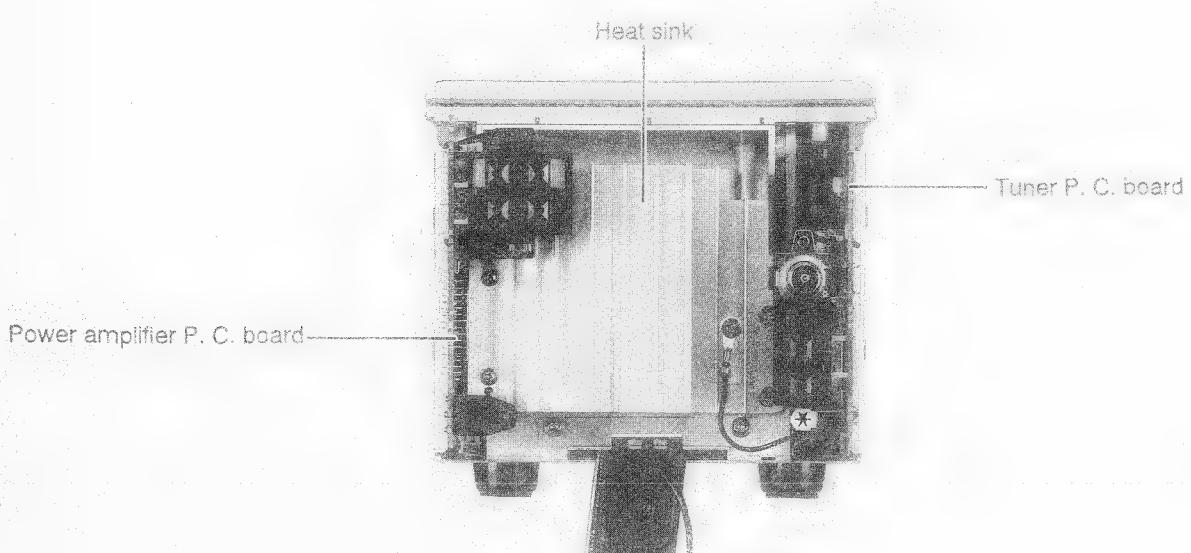


Fig. 4-7

5. Removal of Main Parts

『Deck and Power Supply Unit』

■ Arrangement and designations of P.C. boards

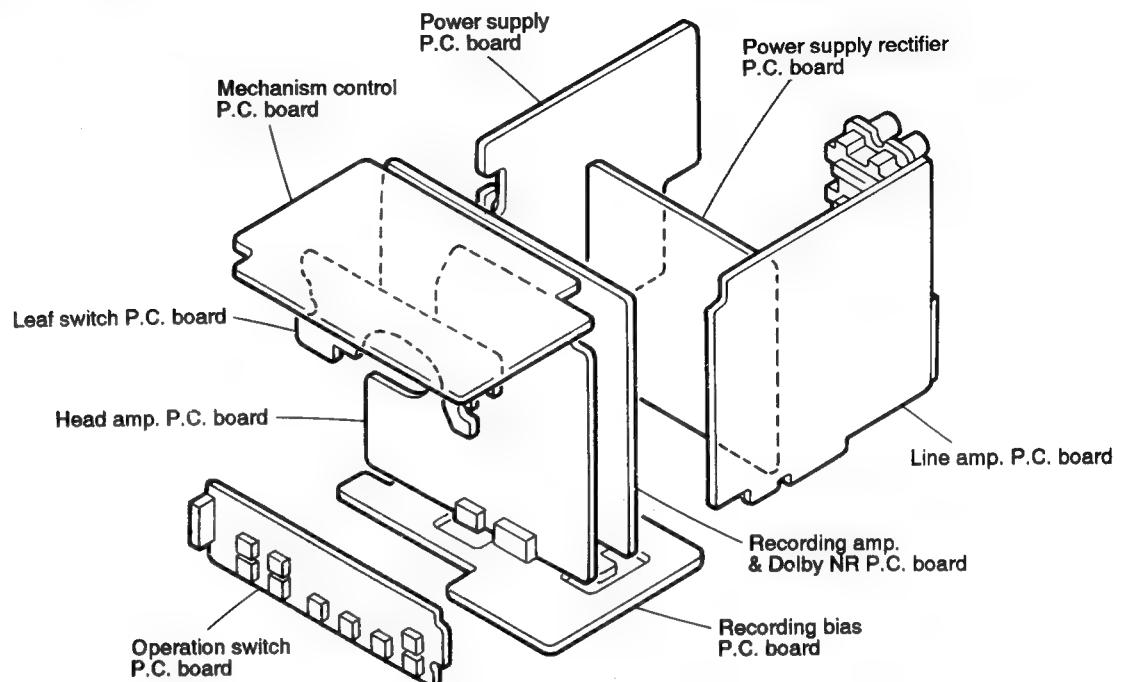


Fig. 5-1

Armor Section

■ Removing the cassette door cover (See Fig. 5-2)

1. While pressing down the [EJECT] lever, open the cassette door.
2. Remove the door cover while pulling it upward.

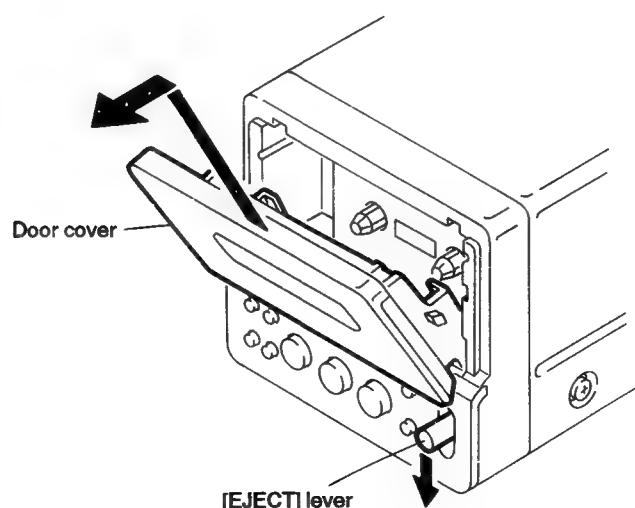


Fig. 5-2

■ Removing the front plate (See Figs. 5-3 and 5-4)

1. After turning over the body, remove the two screws ① retaining the front plate (See Fig. 5-3).
2. Open the cassette door, and while disengaging the two engagements ② retaining the front plate in the inner part of the cassette holder, remove the front plate by pulling it toward the front side (See Fig. 5-4).

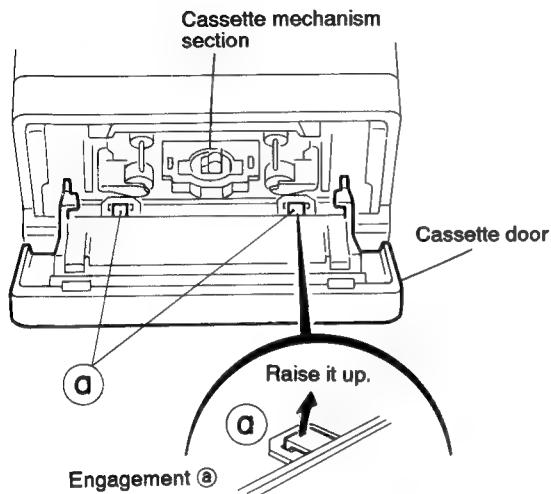


Fig. 5-4

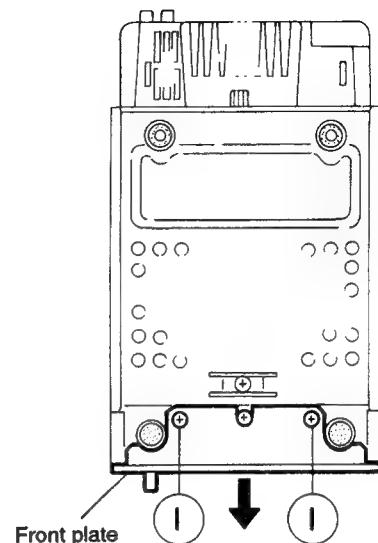


Fig. 5-3

■ Removing the top cover (See Figs. 5-5 and 5-6)

1. From both sides of the body, remove the four screws ② retaining the top cover (See Fig. 5-5).
2. From the back of the body, remove the two screws ③ retaining the top cover (See Fig. 5-6).
3. Remove the top cover toward the back of the body.

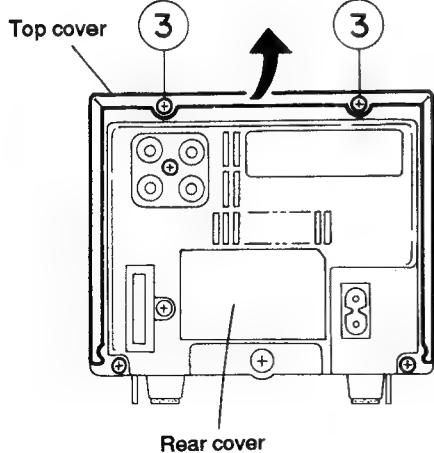


Fig. 5-6

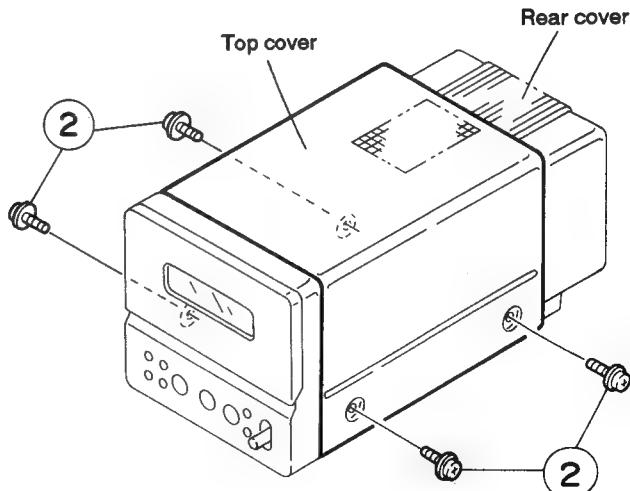


Fig. 5-5

■ **Removing the rear cover** (See Figs. 5-7 and 5-8)

1. From the back of the body, remove the four screws ④ retaining the rear cover.
2. Disengage the two engagements ⑤ on both the right and left sides of the rear cover and chassis.

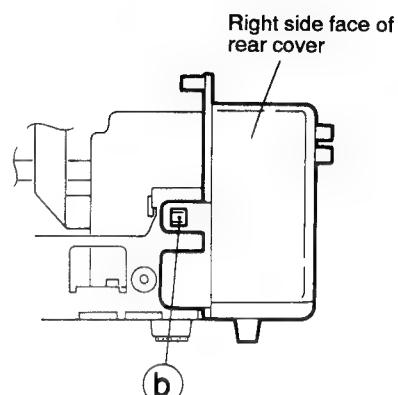
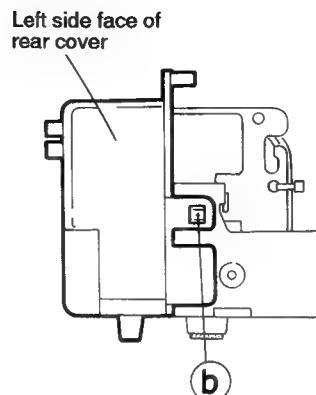
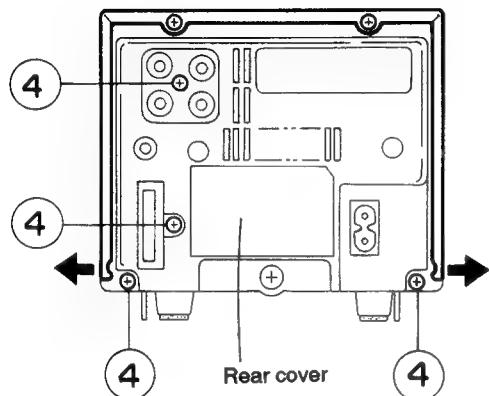


Fig. 5-8

Fig. 5-7

■ **Removing the front panel assembly**

(See Figs. 5-9 and 5-10)

1. Remove the two flat head screws ⑤ retaining the front panel assembly.
2. After turning over the body, remove the one screw ⑥ retaining the front panel assembly.
3. Disengage the four engagements ⑦ between the front panel assembly and chassis.
4. Take out the front panel assembly from the front face of the body.

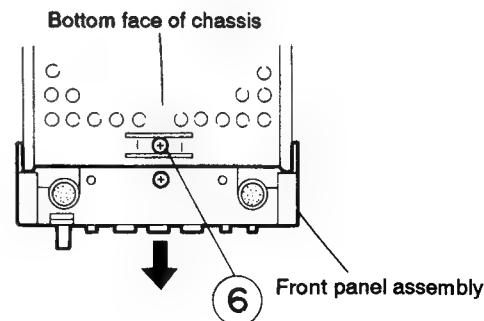
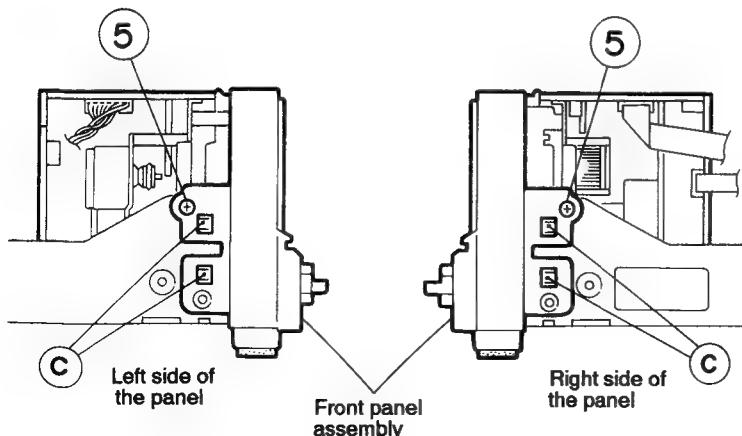


Fig. 5-10

Fig. 5-9

■ Removing the cassette mechanism assembly

(See Fig. 5-11)

1. Disconnect the connector wire from the connector CN275 on the mechanism control P.C. board.
2. Remove the four screws ⑦ retaining the cassette mechanism assembly.
3. Take out the cassette mechanism assembly from the front face of the body.

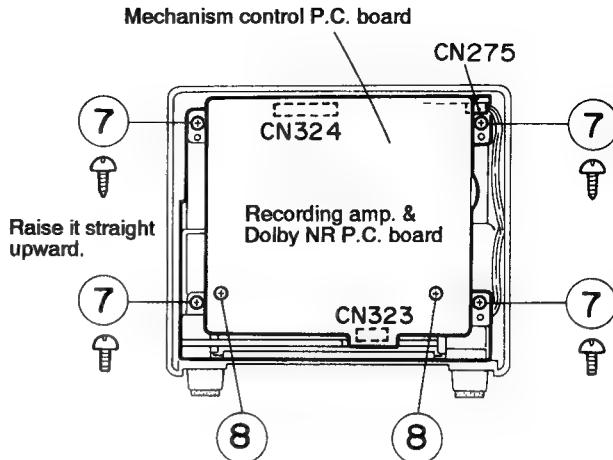


Fig. 5-11

■ Removing the recording amp. and Dolby NR P.C. board

(See Fig. 5-11)

1. Remove the two screws ⑧ retaining the recording amp. and Dolby NR P.C. board.
2. Remove the recording amp. and Dolby NR P.C. board and disconnect the connectors CN323 and CN324.

■ Removing the mechanism control P.C. board

(See Fig. 5-12)

1. Remove the recording amp. and Dolby NR P.C. board.
2. Remove the two screws ⑨ retaining the mechanism control P.C. board.
3. While raising the mechanism control P.C. board straight upward, disconnect the connectors CN272 and 273 on the P.C. board.

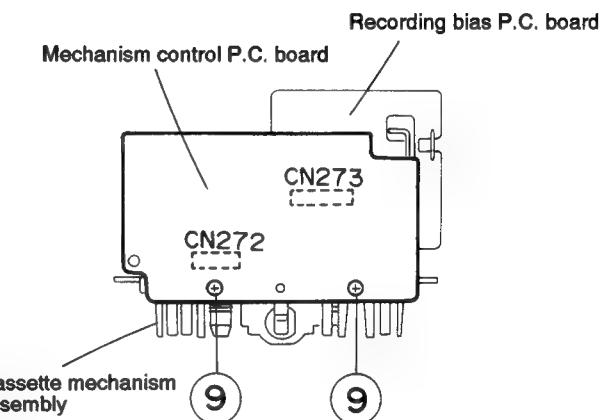


Fig. 5-12

■ Removing the head amp. P.C. board

(See Figs. 5-13 and 5-14)

1. Remove the recording amp. & Dolby NR P.C. board and mechanism control P.C. board.
2. After removing the FPC holder, disconnect the head flexible wire from the connector CN301 on head amp. P.C. board (See Fig. 5-13).
3. Remove the one screw ⑩ retaining the head amp. P.C. board (See Fig. 5-14).
4. After lowering the head amp. P.C. board in the arrow direction, disengage the engagement ④ and remove the P.C. board (See Fig. 5-14).

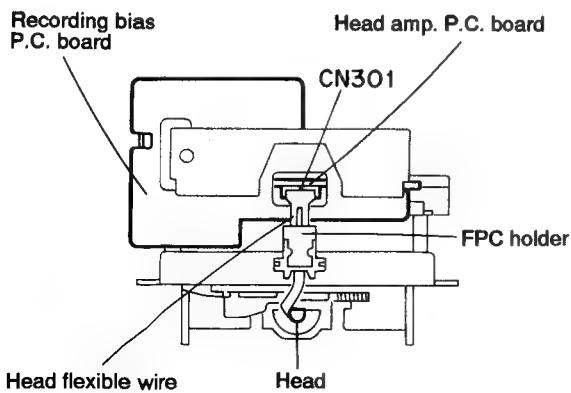


Fig. 5-13

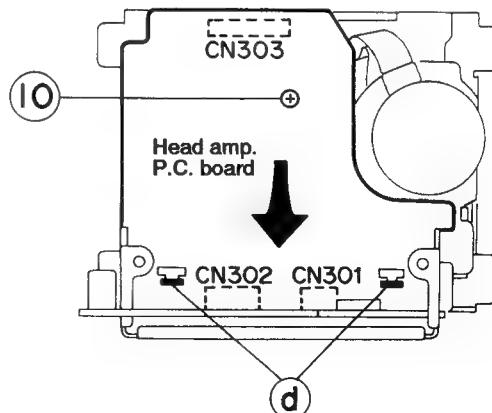


Fig. 5-14

■ Removing the front panel (See Figs. 5-15 ~ 5-17)

1. After turning over the body, remove the one screw ⑪ retaining the door holder from the front panel (See Fig. 5-15).
2. Open the door by pressing the [EJECT] button, and pull out the door holder in the arrow direction (See Fig. 5-16).
3. Remove the six screws ⑫ retaining the operation switch P.C. board (See Fig. 5-17).

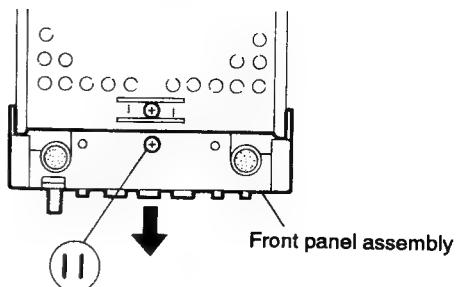


Fig. 5-15

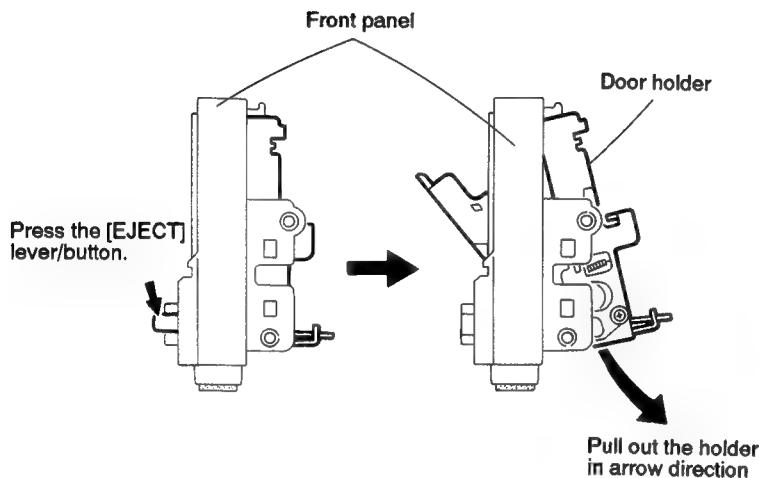


Fig. 5-16

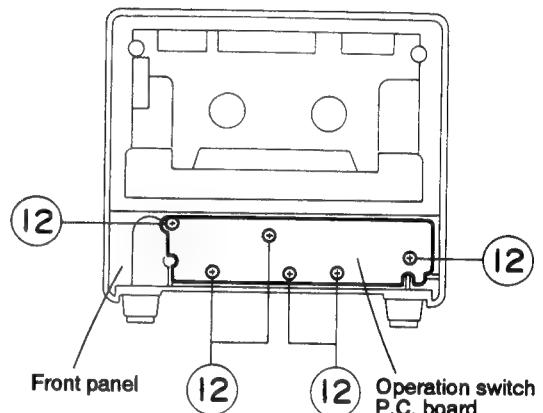


Fig. 5-17

■ Removing the line amp. P.C. board and power supply P.C. board (See Fig. 5-18)

1. Remove the two screws ⑬ retaining the heat sink.
2. After raising the line amp. P.C. board, disengage the two engagement ⑭ between the P.C. board and chassis.
3. Remove the one screw ⑮ retaining the AC jack holder.
4. After raising the power supply P.C. board, remove the engagement ⑮ between the P.C. board and chassis.

■ Removing the power trans. (See Fig. 5-18)

Remove the four screws ⑯ retaining the power trans.

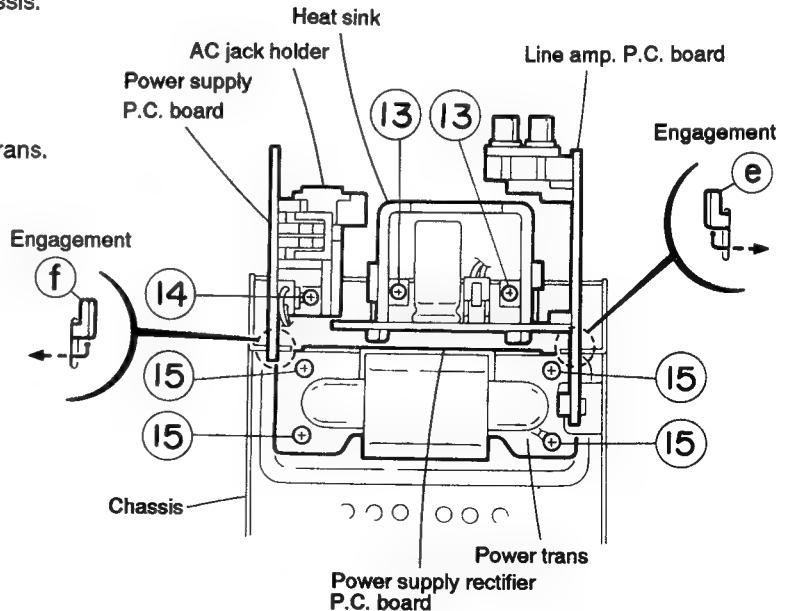


Fig. 5-18

《CD/Tuner & Amp. Unit》

■ Removing the side panels

(See Figs. 5-19 and 5-20)

Remove the four screws ① retaining both the right and left side panels.

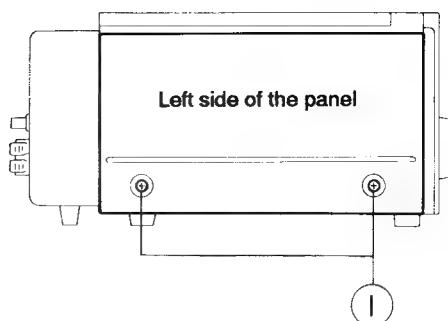


Fig. 5-19

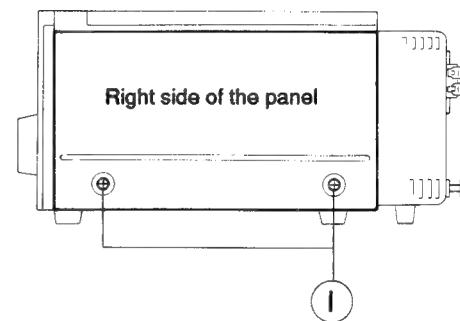


Fig. 5-20

■ Removing the rear cover (See Figs. 5-21~5-24)

1. While pressing the four pawls ⑧ and ⑨ for the wire holder with screw driver, etc., remove the holder by shifting it in the arrow direction.
2. Remove the two right and left side screws ② retaining the rear cover.
3. From the back face of the body, remove the five screws {③ x 2, ④ x 1 and ⑤ x 2} retaining the rear cover.
4. By disengaging the four engagements {⑥, ⑦, ⑧ and ⑨} between the right and left sides of the rear cover with screw driver, etc., remove the rear cover.

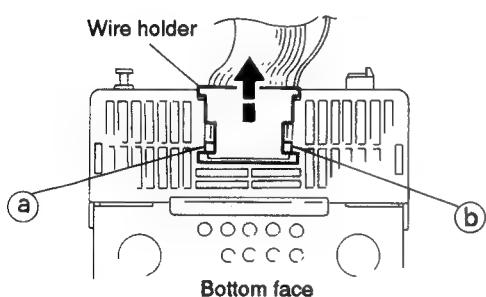


Fig. 5-21

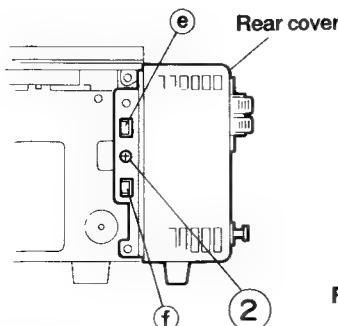
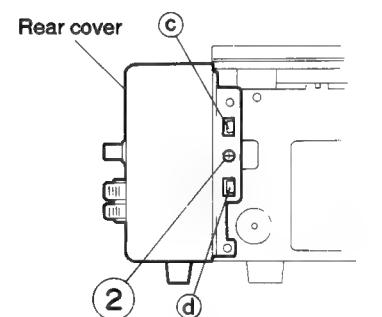


Fig. 5-23

Right side of the rear cover



Left side of the rear cover

Fig. 5-22

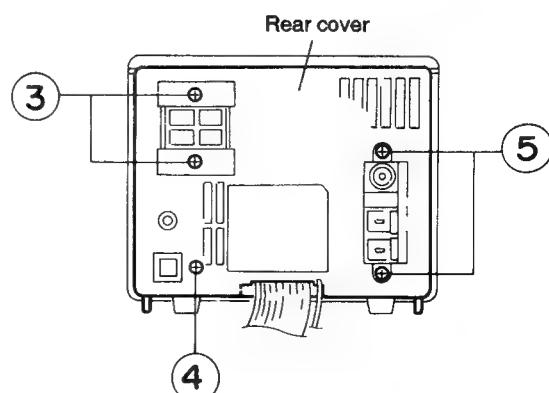


Fig. 5-24

■ Removing the CD player section

(See Figs. 5-25 and 5-26)

1. Remove the two screws ⑥ from the side of the body.
2. From the right side of the body, disconnect the card wires and 3pin connectors respectively from connectors CN602, CN604 and CN605 on the CD servo control P.C. board.
3. While spreading the engagements ⑨ and ⑩ between the right and left side of the CD player section, remove the CD player section upward from the chassis.
4. Disconnect the 4pin connector from the connector CN705 on the system CPU P.C. board (See Fig. 5-25).

■ Removing the front panel assembly

(See Figs. 5-25-5-28)

1. Remove the CD player.
2. Remove the volume control toward the front side so carefully as not cause any damage to the front panel assembly. When it is hard to remove the volume control, pass a string into the clearance between the volume control and front panel assembly, and slowly remove the control while hooking it between the clearance (See Fig. 5-27).
3. Remove the two screws ⑦ from the bottom face of the body (See Fig. 5-28).
4. Remove the two screws ⑧ from the right and left side faces of the body (See Fig. 5-27).
5. After disengaging the four engagements ①, ②, ③ and ④ between the front panel assembly and chassis, remove the front panel assembly toward the front side in the arrow direction (See Fig. 5-27).
6. Disconnect the card wires, connectors, etc. from the respective connectors CN602, CN604 and CN605 on the CD amp. P.C. board (See Fig. 5-26).
7. Remove the card wires respectively from the connectors CN701, CN702 and CN703 on the system CPU P.C. board (See Fig. 5-27/5-28).

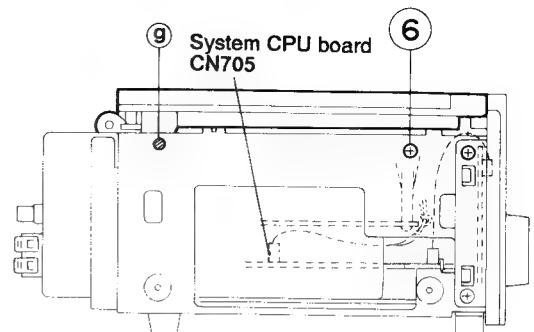
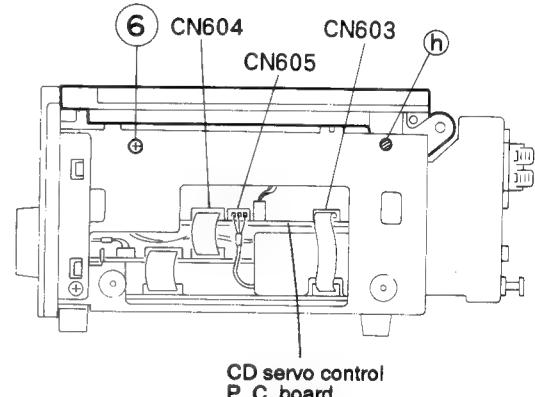


Fig. 5-25



CD servo control
P. C. board

Fig. 5-26

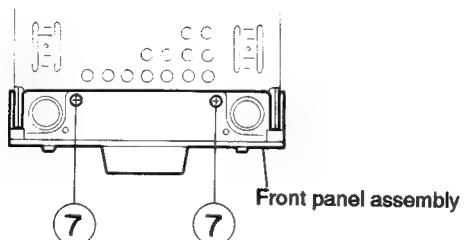


Fig. 5-28

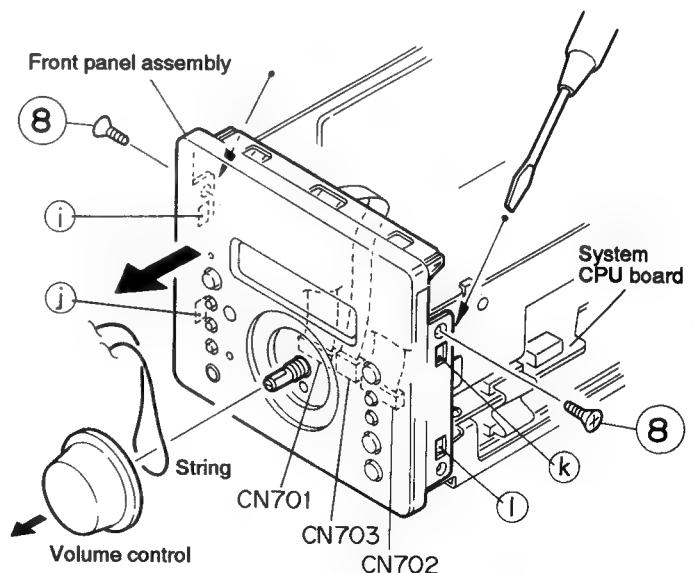


Fig. 5-27

■ Removing the front cover

(See Figs. 5-29 and 5-30)

1. While pressing the two engagements ⑩ and ⑪ at the upper part of the front panel, remove the front cover in the arrow direction.

Caution: Since the front cover and panel are bonded together with duplicated tape, remove the front cover while peeling off the duplicated tape.

2. From inside the front panel remove the six screws retaining the LCD & control switch P.C. board.

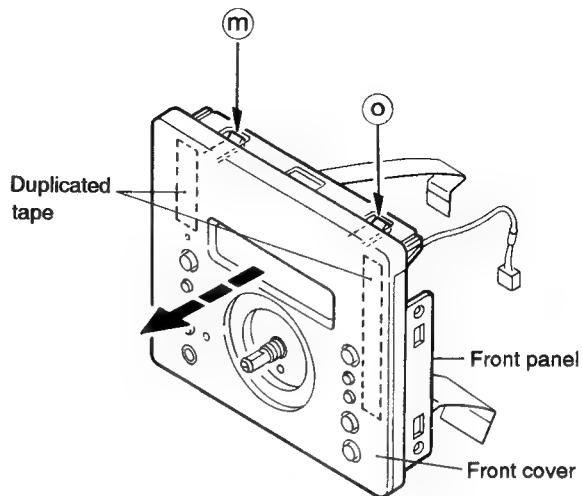


Fig. 5-29

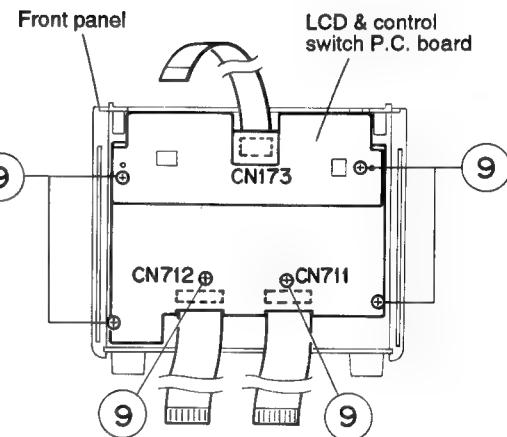


Fig. 5-30

■ Removing the system CPU P.C. board

(See Fig. 5-31)

1. Disconnect the card wires respectively from the connectors CN706 and CN707 on the system CPU P.C. board.
2. From the chassis, remove the three screws ⑩ retaining the system CPU P.C. board.
3. From the connector CN2 on the tuner P.C. board, remove the connector wire outgoing from W701 on the system CPU P.C. board.

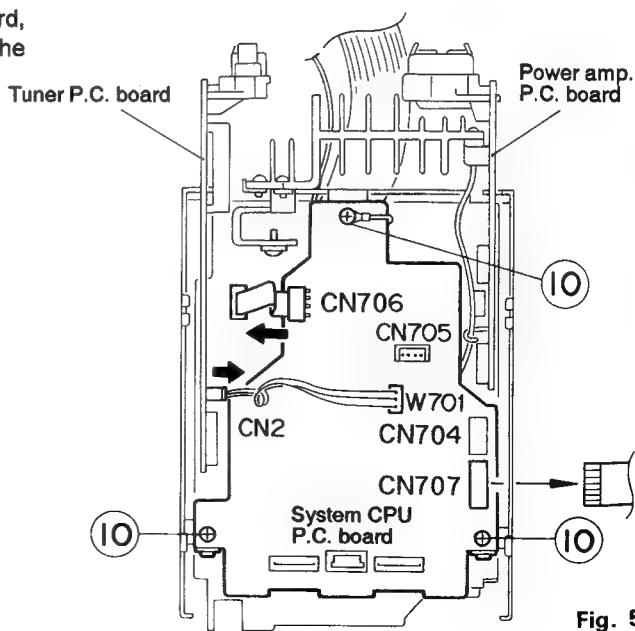


Fig. 5-31

■ Removing the power amp. P.C. board and heat sink

(See Figs. 5-32 and 5-33)

1. From the back face of the body, remove the three screws {⑪ x 2 and ⑫ x 1} retaining the heat sink. For dismounting the heat sink alone, further remove the two screws ⑬.
2. While disconnecting the connectors CN301 and CN308 on the power amp. P.C. board respectively from the function P.C. board, remove the power amp. P.C. board upward, and disengage the engagement ⑭ between the chassis and P.C. board in arrow direction.

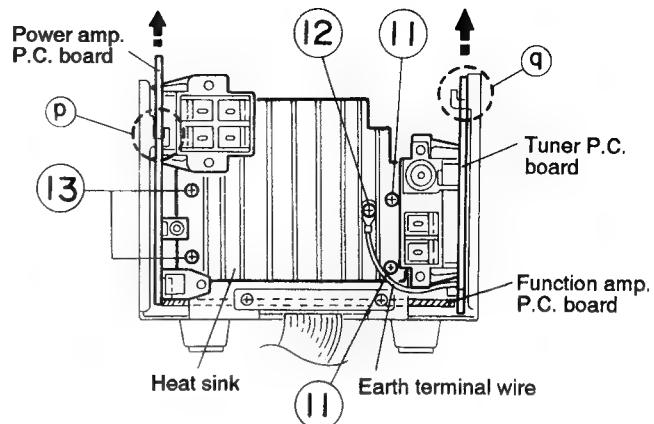


Fig. 5-32

■ Removing the tuner P.C. board

(See Figs. 5-32 and 5-33)

1. From the function amp. P.C. board, disconnect the connector CN1 on the tuner P.C. board in upward direction, and disengage the engagement ⑮ between the chassis and P.C. board in arrow direction.

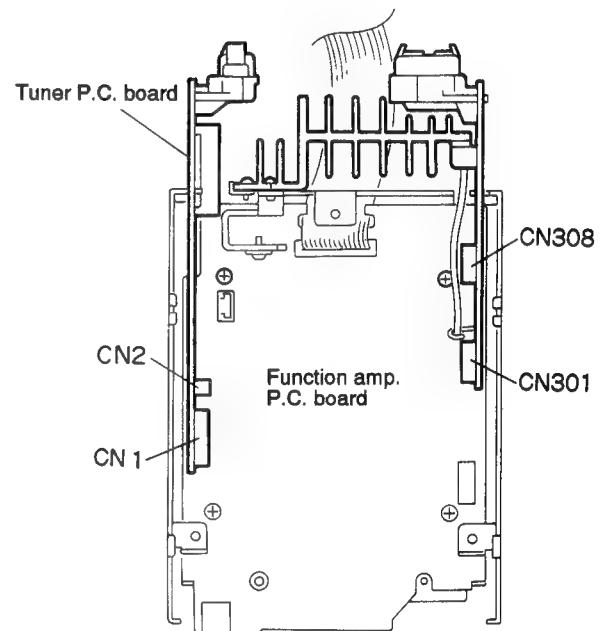


Fig. 5-33

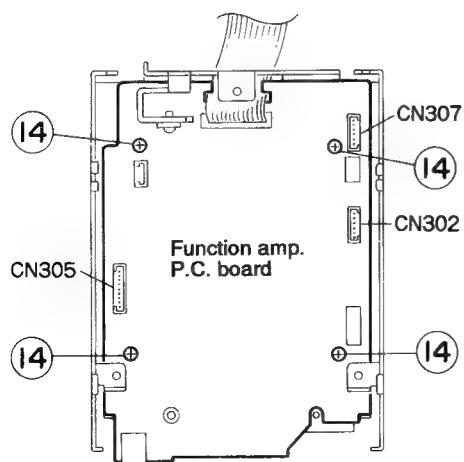


Fig. 5-34

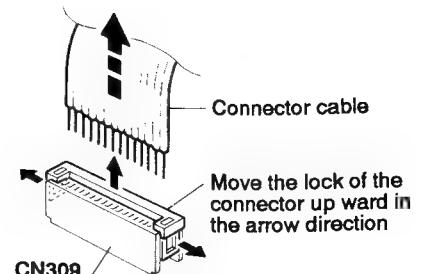


Fig. 5-35

■ Removing the CD servo control P.C. board

(See Fig. 5-36)

From inside the CD player section, remove the three screws ⑯ retaining the CD servo control P.C. board.

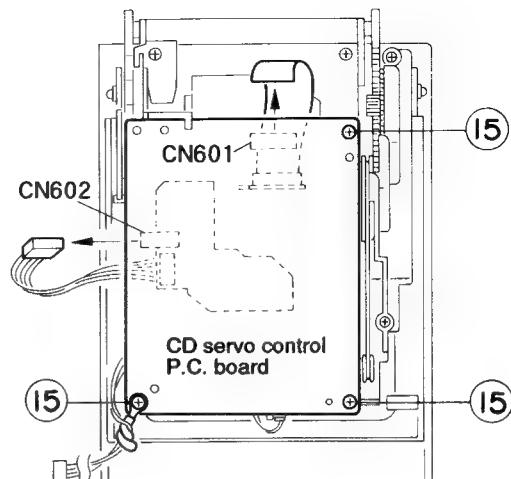


Fig. 5-36

■ Removing the CD mechanism (See Fig. 5-37)

1. Remove the two screws ⑯ retaining the CD mechanism.
2. Remove the CD mechanism holder and hook (Unhook the CD mechanism holder).
3. Remove the two screws ⑰ retaining the CD mechanism.
4. After moving the CD mechanism in the arrow direction, take out the turn table from the chassis.

■ Removing the door opening/closing detector switch P.C. board (See Fig. 5-37)

Remove the one screw ⑯ retaining the door opening/closing detector switch P.C. board.

■ Removing the CD door gear unit (See Fig. 5-37)

Remove the two screws ⑯ retaining the CD door gear unit.

■ Removing the door drive motor (See Fig. 5-38)

1. Remove the one screw ⑯ retaining the door drive motor.
2. Dismount the belt from the motor pulley.

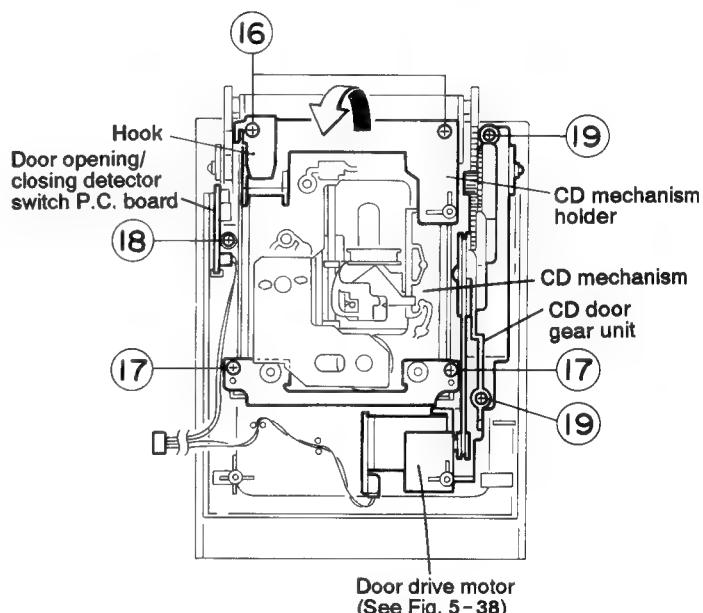


Fig. 5-37

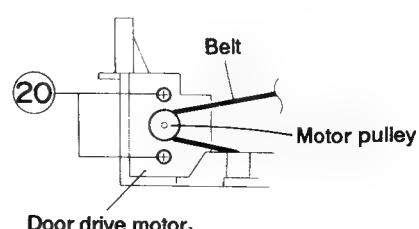


Fig. 5-38

《Cassette Mechanism Section》

■ Removing the head mount assembly

(See Figs. 5-39 and 5-40)

1. Remove the deck & power supply unit and cassette door cover.
2. Remove the front cover.
3. Remove the top cover.
4. Remove the front panel.
5. Remove the front panel assembly.
6. Remove the cassette mechanism assembly.
7. Remove the three screws ① retaining the head mount assembly (See Fig. 5-39).
8. After removing the FPC holder from the chassis, disconnect the head flexible wire from the connector CN301 on the head amp. P.C. board (See Fig. 5-13).

Caution 1. Whenever the head mount assembly has been changed, be sure to adjust the head azimuth.

Caution 2. The direction lever gear and head mount gear should be reassembled according to the methods in Fig. 5-40.

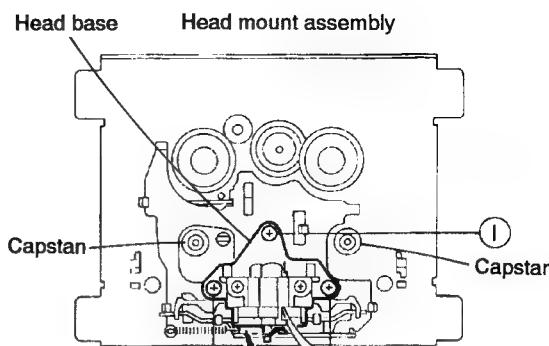
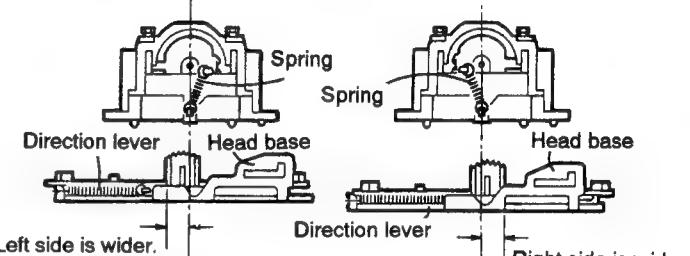


Fig. 5-39



In case the gear section is located on the left-hand side from the center, the head mount spring should be positioned on the right side as indicated above.

In case the gear section is located on the right-hand side from the center, the head mount spring should be positioned on the left side as indicated above.

■ Removing the pinch roller assembly

(See Fig. 5-41)

After opening the pawl ② retaining the right side pinch roller assembly toward outside, pull out the pinch roller assembly. The left side pinch roller assembly should also be pulled out similarly according to the above step.

Caution: When assembling each pinch roller assembly, make sure that the stud is inserted between the direction lever and pinch roller spring.

Fig. 5-40

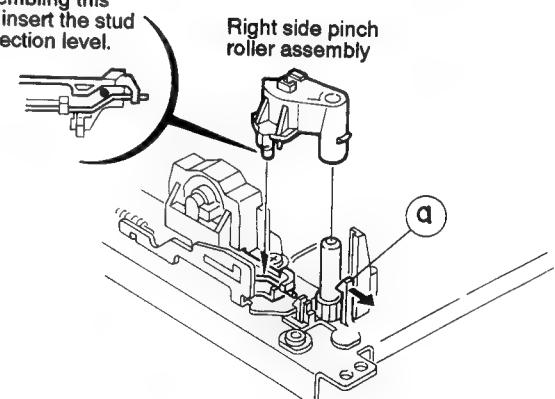


Fig. 5-41

■ Removing the FM bracket assembly

(See Figs. 5-42-5-44)

1. Remove the three screws ② retaining the FM bracket assembly (See Fig. 5-42).
2. While opening the two engagements ⑥ fixing the FM bracket assembly to outside, remove the bracket assembly (See Fig. 5-42).
3. While raising the FM bracket assembly, remove the capstan belt and flywheel.

Caution: In this case, the belt and flywheel should be removed so carefully as not to cause any damage to the reel belt.

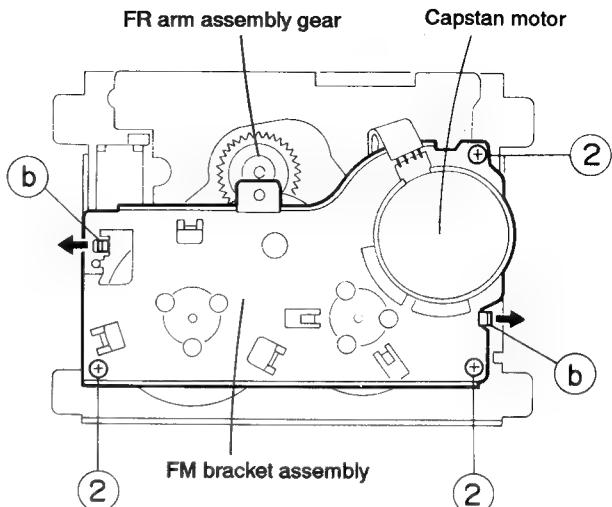


Fig. 5-42

● Method of reassembling the FM bracket assembly

(See Fig. 5-42-5-44)

1. First of all, attach the larger flywheel to the slide guide of the FM bracket assembly as shown in Fig. 5-43.
2. Set the FM bracket assembly to the two engagements ⑥ (See Fig. 5-43).
3. Pass the thrust guide of the flywheel through the notch ④ and turn the flywheel (See Fig. 5-43).
4. Next, set the smaller flywheel similarly according to the above steps (See Fig. 5-43).
5. Hang the capstan belt (See Fig. 5-44).
6. Hang the reel belt on the hook as shown in Fig. 5-44.
7. After turning the FM bracket assembly upside down, insert the flywheel capstan shaft into the bearing at first.
8. After making sure that the reel belt is not twisted, remove the belt from the stud and hang this belt onto the flywheel (See Fig. 5-44).
9. Mount the FM bracket assembly.

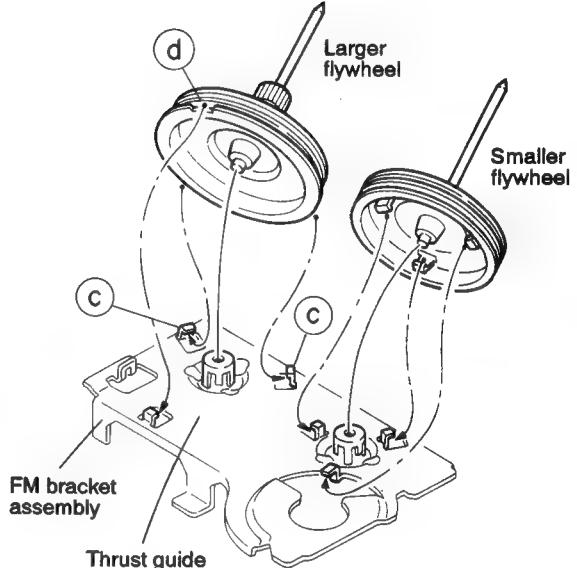


Fig. 5-43

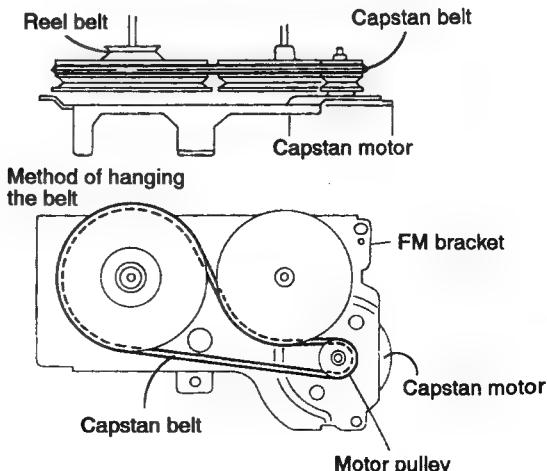


Fig. 5-44

■ Removing the leaf switch P. C. board

(See Fig. 5-45)

1. Remove the solenoid terminal soldering.
2. Remove the one screw ③ retaining the leaf switch P.C. board.
3. Disengage the four engagements ④ fixing the leaf switch P.C. board.

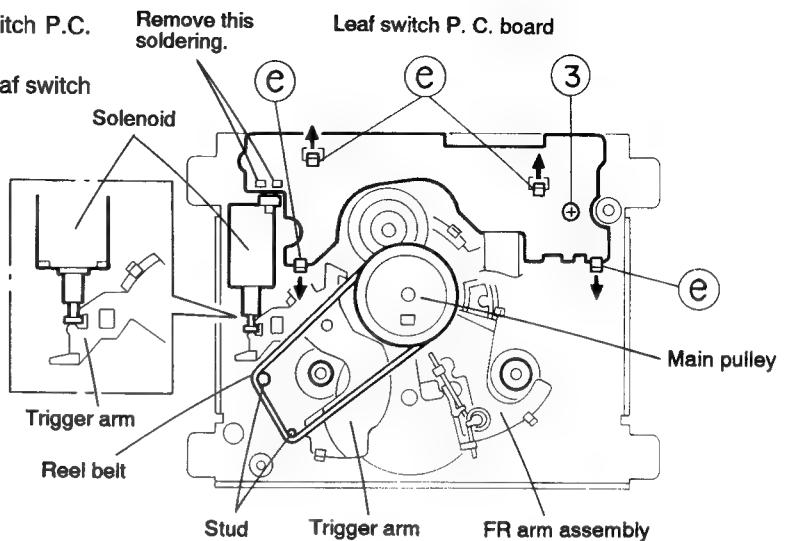


Fig. 5-45

■ Removing the control cam

(See Figs. 5-45~5-47)

1. Remove the FM bracket assembly and flywheel.
2. Dismount the reel belt and pull out the main pulley (See Fig. 5-45).
3. While opening the two pawls ① fixing the trigger arm in the arrow direction, remove the arm from the clamp shaft (See Fig. 5-46).
4. Dismount the elevator ring (See Fig. 5-47).
5. Remove the FR arm spring, and while opening the four pawls ② fixing the FR arm toward outside, pull out the FR arm assembly (See Fig. 5-46).
6. While aligning the engagement ③ of the control cam to the center of bearing hole, pull out the control cam (See Fig. 5-46).

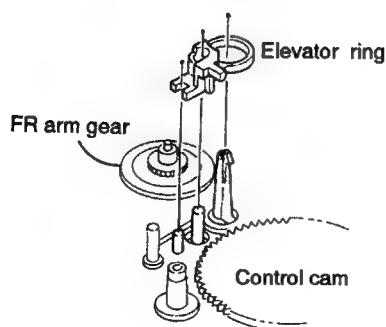
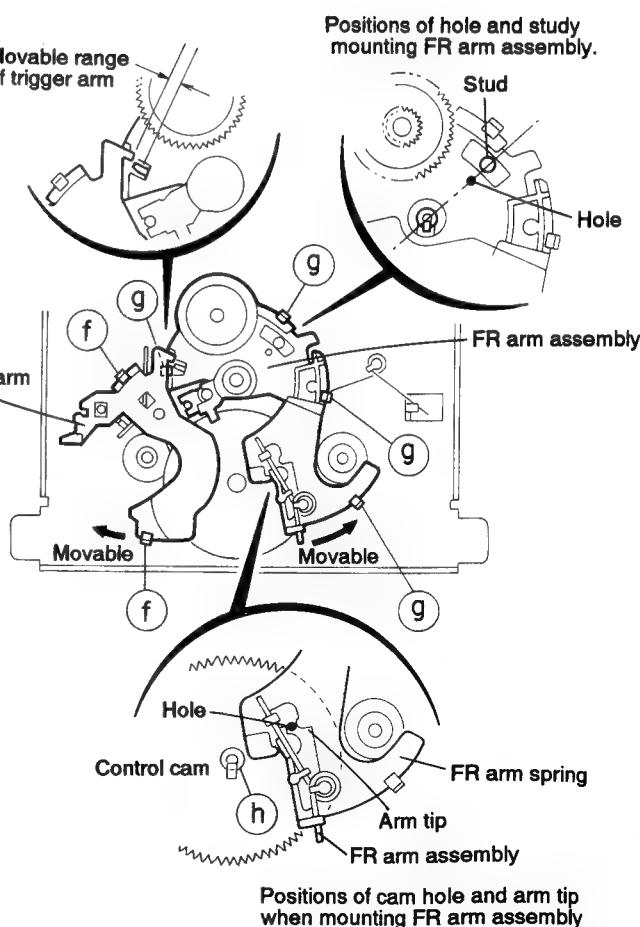


Fig. 5-47



Positions of cam hole and arm tip when mounting FR arm assembly

Fig. 5-46

● Reassembling the control cam

(See Figs. 5-46-5-51)

1. When assembling the control cam, pull the head base toward the front side while pressing the forward/reverse arm in the arrow direction.
2. Under the conditions in Step 1, the head base beneath the control cam and the position of the forward/reverse arm stud should be moved in the arrow direction (See Fig. 5-49).
- Caution 1:** Make sure that the cam is turned smoothly when turning it in counterclockwise direction.
- Caution 2:** The cam spring should be clicked due to the cross movement of the head base.
3. After attaching the control cam to the shaft, align the concave section ① of the control cam to the position as shown in Fig. 5-50 while moving the forward/reverse arm and head base.
4. For making it possible to mount the FR arm assembly, align the concave section ① of the control cam to the position as shown in Fig. 5-51 while turning the control cam.
- Caution 1:** The positions of the hole and stud in Fig. 5-46 should be aligned so carefully for mounting the FR arm assembly (See Fig. 5-46).
- Caution 2:** Confirm that the FR arm is reset to the initial position by moving the arm in the arrow direction.
5. Attach the elevator ring (See Fig. 5-47).
6. Attach the trigger arm.

Caution: Confirm that the trigger arm is reset to the initial position by moving the arm in the arrow direction.

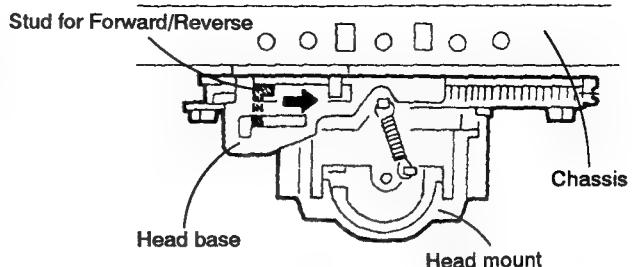


Fig. 5-48

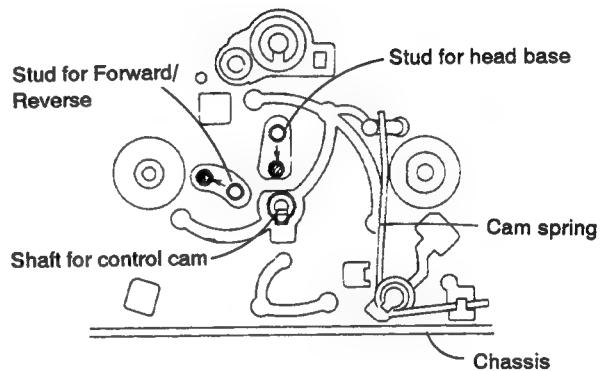


Fig. 5-49

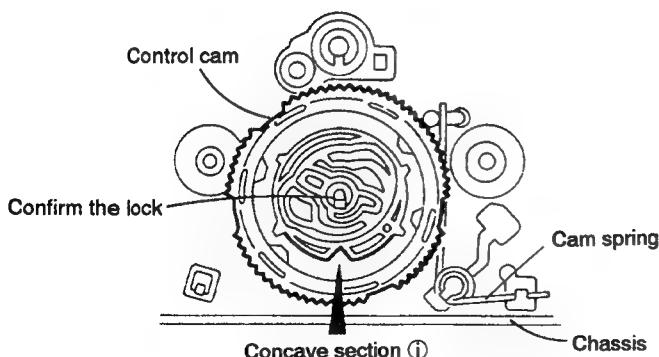


Fig. 5-50

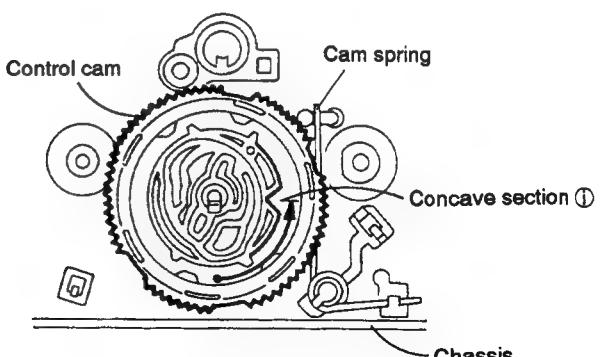


Fig. 5-51

6. Main Adjustment

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 600 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
 - VTT712 Tape speed, wow & flutter 3kHz
 - VTT727 Playback reference level 400Hz
 - TTT739 Playback frequency response
 - VTT704 Head azimuth 12.5kHz
4. Electronic voltmeter, Distortion meter
5. Torque gauge Cassette type for CTG - N
mechanism adjustment
6. Wow and Flutter meter , Frequency counter
7. CD test disc CTS - 1000
8. Jitter meter(MJM631)
9. Blank tape : AC - 225(TYPE 1), AC - 514(TYPE 2)

■ Measuring conditions (Amplifier section)

Rating voltage

AC230V(50Hz)

Reference output : Speaker 0 dBs (0.775V) / 4 Ω
: Headphone — 21 dBs (0.069V) / 32 Ω
: Line out — 3.8dBs(0.5V) / 47k Ω

Reference input : AUX IN — 3.8dBs

● Standard position of functionswitches

Function switch TAPE
DOLBY NR , Active hyper bass switch OFF
Timer switch OFF

● Standard position of volume control

BASS, TREBLE CENTER
Volume control adjust to 0dBs output

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.

2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

■ Measuring condition (Radio section)

Refer to rating source Tuner+B : DC 12V
Reference output Speaker : 0dBs(0.775V) / 4 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation
frequency deviation 22.5kHz

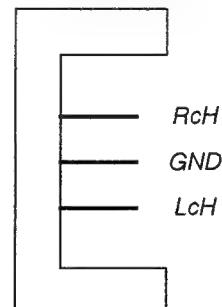
● Standard position of switches and controllers

Function RADIO
Active Hyper Bass OFF
Bass/Treble Center

● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
Procedure of the steps of tracking should be kept.

Test point : DOLBY NR TP CN322



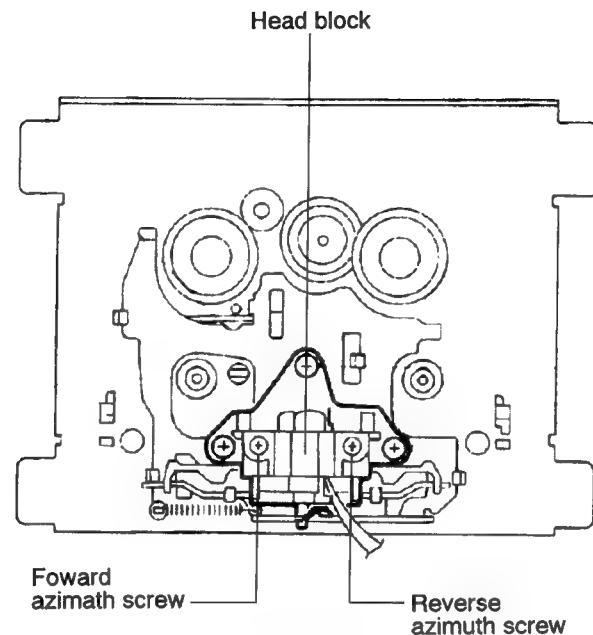
■ Arrangement of Adjusting & Test Points**《Cassette mechanism section》**

Fig. 6-1

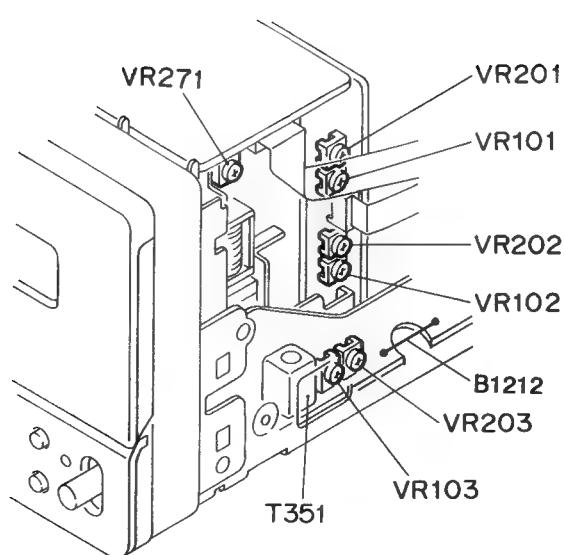
《Deck & power supply unit section》

Fig. 6-2

■ Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape : VTT704(12.5kHz) Output terminal : Line out	<p>① Playback the Test tape VTT704 (12.5kHz).</p> <p>② Adjust the head azimuth so that the phase difference is minimum .(Within 1dB of the peak level of play output.)</p> <p>③ After adjustment apply the screw locking adhesive to the head azimuth screw more than at half around the screw head.</p> <p>※ Whenever the head is changed the azimuth should be readjusted.</p>	Output : Within 1dB of the peak level Phase difference : minimum	Head azimuth screw
Tape speed adjustment Wow &Flutter check	Test tape : VTT712(3kHz) Output terminal : Line out	<p>① Playback the Test tape VTT712 (3kHz) by near the end position,</p> <p>② Check that the frequency counter reading is $3010 \pm 10\text{Hz}$. If the reading is out of this range, adjust the VR271.</p> <p>③ Wow &Flutter should be less than 0.25%(JIS WTD).</p>	Tape speed : $3010 \pm 10\text{Hz}$ Wow &Flutter : less than 0.25%(JIS WTD).	VR271
Playback output level adjustment	Test tape : VTT727(400Hz) Output terminal : Line out	<p>① Playback Test tape VTT727(400Hz) .</p> <p>② Adjust VR101(Lch) and VR201(Rch) so that output level on Line out terminal(J171) to $-1\text{dBs} \pm 0.5\text{ dBs}$.</p>	$-1\text{dBs} \pm 0.5\text{ dBs}$	Lch : VR101 Rch : VR201
Playback frequency response check	Test tape : VTT739 : TMT735. Output terminal : Line out	<p>① Playback Test tape VTT739 and TMT735.</p> <p>② Frequency response should be $0\text{dB} \pm 4\text{dB}$ against 63Hz to 1kHz.</p> <p>③ Frequency response should be $+1\text{dB} \pm 3\text{dB}$ against 1kHz to 12.5kHz.</p>	1k / 63Hz : $0 \pm 4\text{dB}$ 1k / 12.5kHz : $+1 \pm 3\text{dB}$	—
Bias oscillation frequency adjustment	Test tape : AC-514 Output terminal : Bias TP B1212	<p>① Connect the Bias TP B1212 with frequency counter.</p> <p>② Insert the test tape AC-514.</p> <p>③ Start the recording, make the state pause.</p> <p>④ Confirm that the frequency counter reading is $100\text{kHz} \pm 0.2\text{kHz}$. If the reading is out of this range, adjust T351.</p>	$100\text{kHz} \pm 0.2\text{kHz}$	T351

■ Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Record & Playback frequency response adjustment	Test tape : AC-225 Reference frequency : 1.25k, 12.5kHz (Ref. - 20dB) Output terminal : Line out Input terminal : Line in	① Record & Playback the test tape AC-225 from Line in terminal at 1.25kHz and 12.5kHz reference frequency. ② Adjust the VR103 (Lch) and VR203 (Rch) so that the output deviation between the 1.25kHz and 12.5kHz signal 1dB ± 3dB.	1dB ± 3dB.	Lch : VR103 Rch : VR203
Record & Playback sensitivity adjustment	Test tape : AC-225 Reference frequency : 400Hz (Ref. - 20dB) Output terminal : Line out Input terminal : Line in	① Record & Playback the test tape AC-225 from Line in terminal at 400Hz reference frequency. ② Adjust the VR102 (Lch) and VR202 (Rch) so that the output deviation between the -24dB ± 1dB.	-24dB ± 1dB	Lch : VR102 Rch : VR202

7. Out Line of Main IC

◆ IC133 (BA15218) Mixing Amplifier

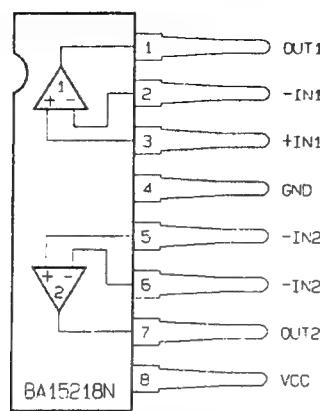


Fig. 7-1

◆ IC331 (UPC1228HA) Head Amplifier

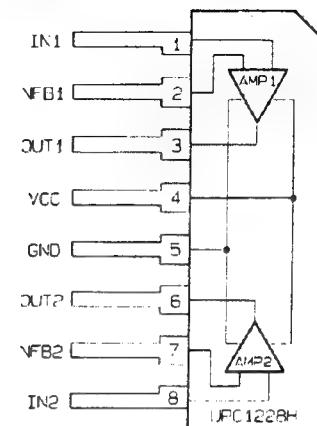


Fig. 7-2

◆ IC332 (UPC1330HA) Recording & Playback Selector

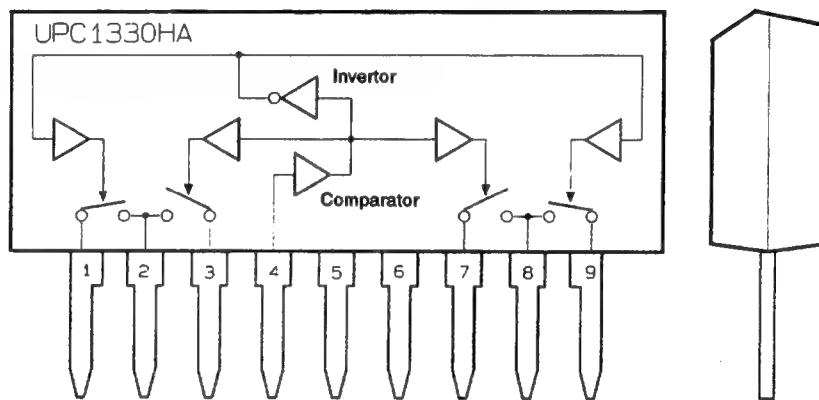


Fig. 7-3

◆ IC322 (LA3220) Recording Amplifier

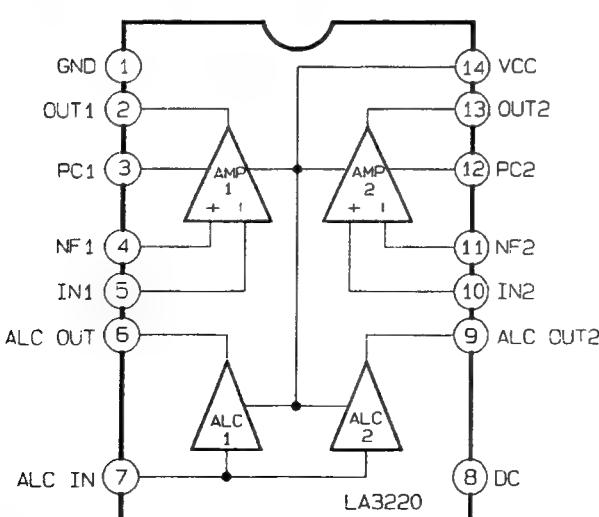


Fig. 7-4

◆ IC321 (HA12134A) Dolby NR

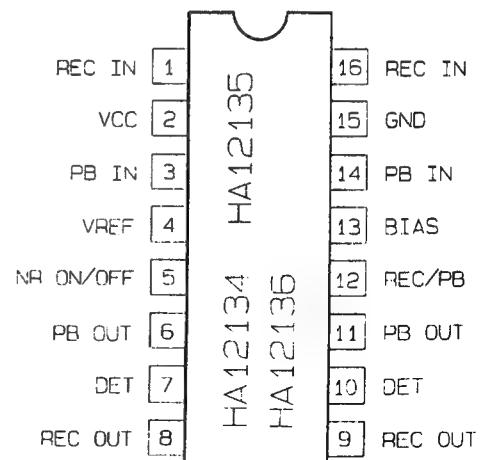


Fig. 7-5

■ IC701 : MN101C03AJA1 (CPU) Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	COM3	0	LCD Common 3
2	COM2	0	LCD Common 2
3	COM1	0	LCD Common 1
4	COM0	0	LCD Common 0
5	VLC3		LCD power source
6	VLC2		LCD power source
7	VLC1		LCD power source
8	Vdd		Power source D
9	OSC2	0	Main clock 32kHz
10	OSC1	I	Sub clock 32kHz
11	Vss		Ground A
12	XI	I	Sub clock 32kHz
13	XO	0	Sub clock 32kHz
14	MMOD		Ground
15	Vref		Ground A
16	KEY1	I	Key in 1
17	KEY2	I	Key in 2
18	DOOR RESET	I	Detecting for Door & Reset
19	LOCK	I	Detecting for Door & Lock
20	TAPE	I	Detecting for tape
21	SAFETY	I	Detecting for Safety
22	CD SAFETY	I	Detecting for CD Safety
23	VERSION	I	Detecting for Version
24	Vref +		Power source
25	SO	0	Serial data out
26	SI	0	Serial data in
27	CK	0	Serial data clock
28	BEAT	0	Beat cut
29	QRIN	I	Data in for Subq/RDS
30	QRCK	0	SUBQ/RDS Clock
31	STTA	0	Strobe tape
32	RST	I	Reset
33	STSO	0	Strobe sound IC
34	PLAY/MS	I	Play/MS
35	HALL	I	Tape end
36	NC		Non Connection
37	AHB	0	Active Hyper Bass
38	MPX	I	Tuner Stereo
39	REM	I	Remote control in
40	NC		Non Connection

Pin No.	Symbol	I/O	Function
41	STAT	0	CD Status
42	BUP	0	Detecting for backup
43	F.TU	0	Function Tuner
44	NC		Non Connection
45	F.CD	0	Function CD
46	POUT	0	Power control
47	MLD	0	CD Command load
48	MDATA	0	CD Command data
49	MCLK	0	CD Command clock
50	XRST	0	CD LSI reset
51	MTO	0	CD Door drive 0
52	MT1	0	CD Door drive 1
53	MTS	0	CD Door speed
54	PERIOD	0	Strobe Tuner
55	SMUTE	0	System mute
56	+ BCTRL	0	+ B control
57	VOL1	I	Volume encoder1
58	VOL2	I	Volume encoder2
59	NC		Non Connection
60	NC		Non Connection
61	NC		Non Connection
62	NC		Non Connection
63	NC		Non Connection
64	NC		Non Connection
65	SEG35	0	LCD Segment
66	SEG34	0	LCD Segment
67	SEG33	0	LCD Segment
68	SEG32	0	LCD Segment
69	SEG31	0	LCD Segment
70	SEG30	0	LCD Segment
71	SEG29	0	LCD Segment
72	SEG28	0	LCD Segment
73	SEG27	0	LCD Segment
74	SEG26	0	LCD Segment
75	SEG25	0	LCD Segment
76	SEG24	0	LCD Segment
77	SEG23	0	LCD Segment
78	SEG22	0	LCD Segment
79	SEG21	0	LCD Segment
80	SEG20	0	LCD Segment

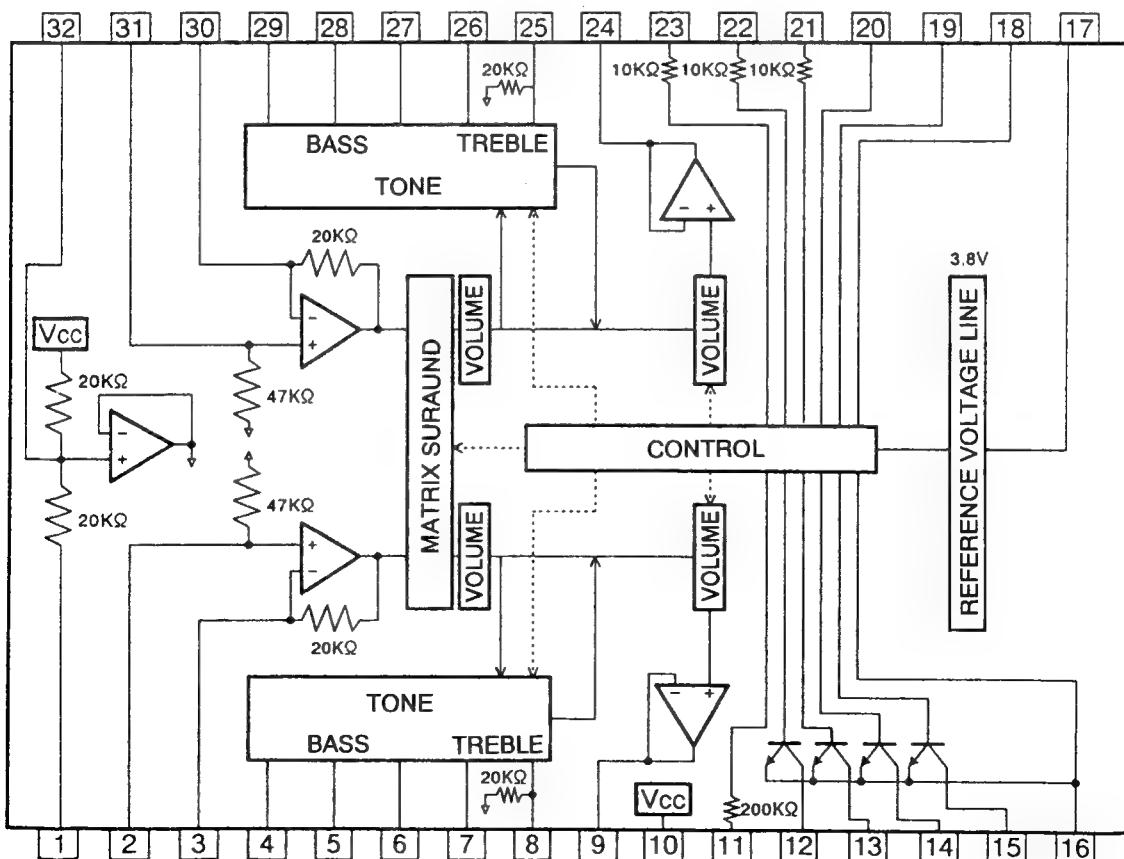
Pin No.	Symbol	I/O	Function
81	SEG19	0	LCD Segment
82	SEG18	0	LCD Segment
83	SEG17	0	LCD Segment
84	SEG16	0	LCD Segment
85	SEG15	0	LCD Segment
86	SEG14	0	LCD Segment
87	SEG13	0	LCD Segment
88	SEG12	0	LCD Segment
89	SEG11	0	LCD Segment
90	SEG10	0	LCD Segment
91	SEG9	0	LCD Segment
92	SEG8	0	LCD Segment
93	SEG7	0	LCD Segment
94	SEG6	0	LCD Segment
95	SEG5	0	LCD Segment
96	SEG4	0	LCD Segment
97	SEG3	0	LCD Segment
98	SEG2	0	LCD Segment
99	SEG1	0	LCD Segment
100	SEG0	0	LCD Segment

■ IC303 : Terminal Function Table of BH3854FS (Audio/Sound Control)

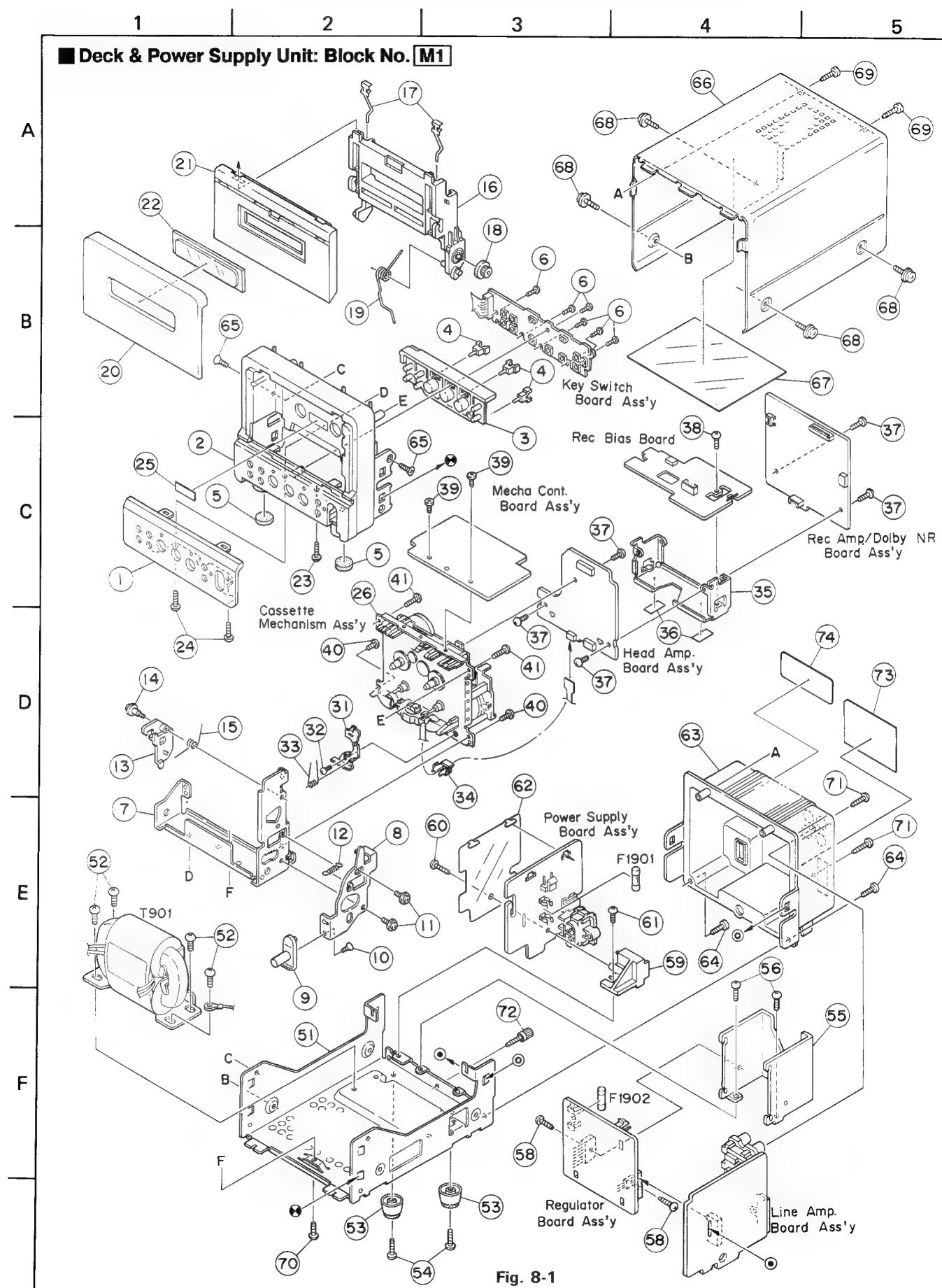
Pin No.	Symbol	I/O	Function
1	A_GND		Analog system gland
2	IN1		1ch volume input terminal
3	NF1		Input stage AMP. gain adjusting terminal
4	BVN1		1ch low pass filter connector terminal
5	BIN1		1ch low pass filter connector terminal
6	BV01		1ch low pass filter connector terminal
7	TIN1		1ch low pass filter connector terminal
8	TV01		1ch low pass filter connector terminal
9	OUT1		1ch volume output terminal
10	Vcc		Power supply terminal
11	SC		Mounting terminal for constant (used to prevent a shock by selector)
12	PORT1		Port output terminal
13	PORT2		Port output terminal
14	PORT3		Port output terminal
15	PORT4		Port output terminal
16	D_GND		Digital system gland

Pin No.	Symbol	I/O	Function
17	VREF		3.8V reference voltage output terminal
18	LATCH		Latch data input terminal
19	DATA		Data input terminal
20	CK		Clock input terminal
21	BC		Mounting terminal for constant (used to prevent a shock by selector)
22	TC		Mounting terminal for constant (used to prevent a shock by selector)
23	VC		Mounting terminal for constant (used to prevent a shock by selector)
24	OUT2		2ch volume output terminal
25	TV02		2ch high pass filter connector terminal
26	TIN2		2ch high pass filter connector terminal
27	BV02		2ch low pass filter connector terminal
28	BIN2		2ch low pass filter connector terminal
29	BVN2		2ch low pass filter connector terminal
30	NF2		Input stage AMP. gain adjusting terminal
31	IN2		2ch volume output terminal
32	FILTER		Filter terminal

■ IC303 Block diagram



8. Analytic Drawing and Parts List

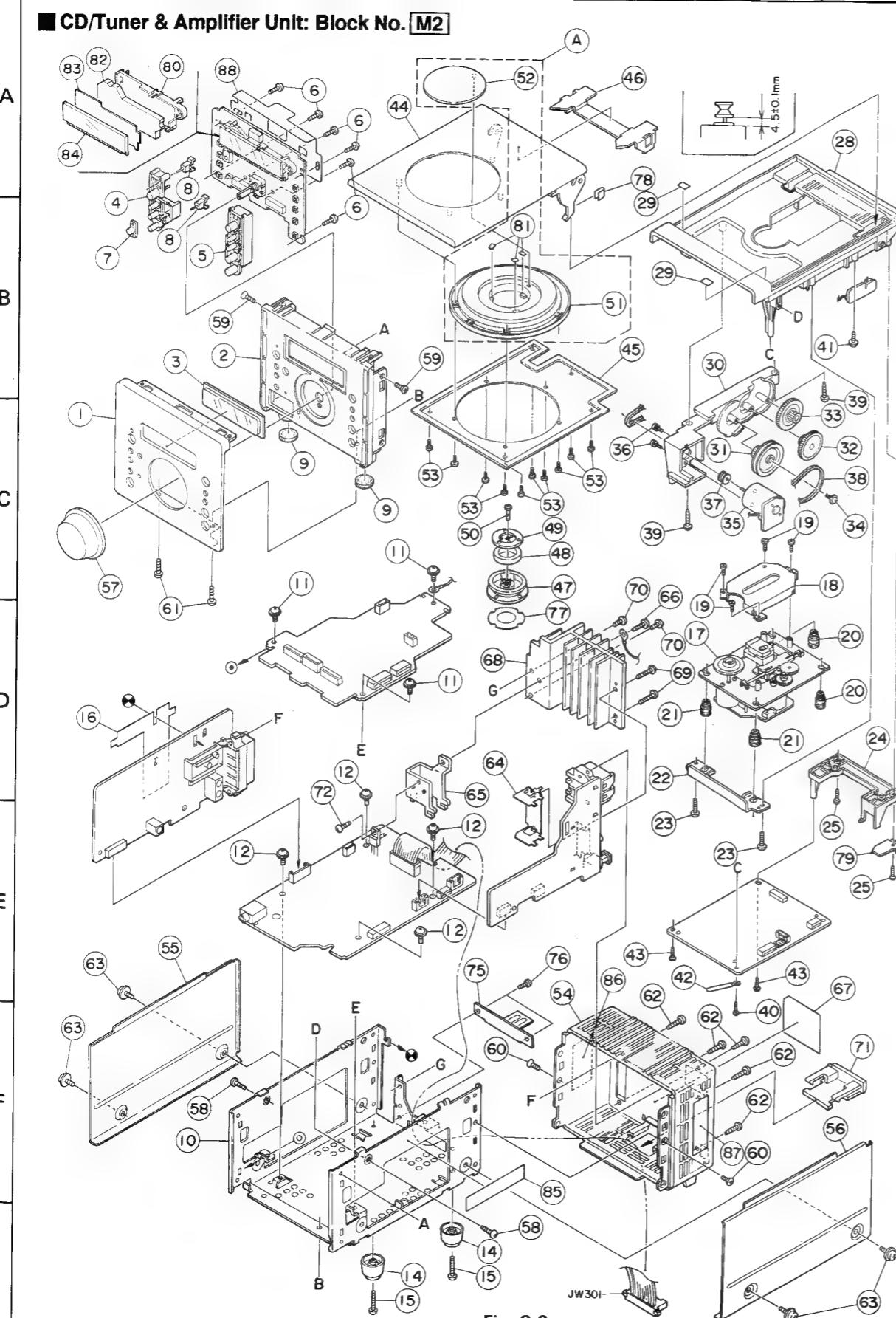


■ Deck & Power Supply Unit Parts List

BLOCK NO. M1MM						
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJC2577-001	FRONT PLATE		1		
2	VJG1438-002	FRONT PANEL		1		
3	VXP3823-001	BUTTON(DECK)		1		
4	VJK4485-001	LED LENS		3		
5	VJF4003-001	FOOT	FOR F.PANEL	2		
6	SBSF2608Z	SCREW	FOR PWB	6		
7	VKL2770-001	DOOR HOLDER		1		
8	VYH8110-001	EJECT LEVER		1		
9	VXQ4124-001	EJECT KNOB		1		
10	SBSF2608Z	SCREW	EJECT KNOB	1		
11	VKZ4323-002	SCREW	EJECT LEVER	2		
12	VKW3002-274	TENSION SPRING	EJECT LEVER	1		
13	VYH7347-001	EJECT ARM		1		
14	VKZ4341-001	SPECIAL SCREW	EJECT ARM	1		
15	VKW4938-001	TORTION SPRING	EJECT ARM	1		
16	VJT2263-006	CASSETTE DOOR		1		
17	VKY4180-001	CASSETTE SPRING		2		
18	VYH5601-001	GEAR		1		
19	VKW5217-002	DOOR SPRING		1		
20	VJC2578-002	DOOR PLATE		1		
21	VJT2377-002	DOOR PANEL		1		
22	VJK4486-002	LCD LENS		1		
23	SBST3006Z	SCREW	HOLDER+F.PANEL	1		
24	SXST3008NW	SCREW	F.PLATE+D.HOLDE	2		
25	VYTT699-001	REFRECTOR		1		
26	-----	C.MECHA ASS'Y		1		
31	VKL7777-002	EJECT SAFETY(R)		1		
32	SBSF3010Z	SCREW	EJECT SAFTEY	1		
33	VKW5224-001	TORSION SPRING	EJECT SAFTEY	1		
34	VKS3655-002	F.P.C. HOLDER	FOR FLEX PWB	1		
35	VYH7910-201	BOARD BRACKET	HOLDER+MECHA	1		
36	VYSS101-030	SPACER	FOR PWB BK	2		
37	SBST3006Z	SCREW	BKT+CASS PWB	5		
38	SBST3006Z	SCREW	BKT/PWB SA+MECH	1		
39	SDST2604Z	SCREW	MECHA CON+MECHA	2		
40	SBST3006Z	SCREW	HOLDER+MECHA	2		
41	SBSF3010Z	SCREW	F.PANEL+MECHA	2		
51	VKL1446-002	BOTTOM CHASSIS		1		
52	SBST4006Z	SCREW	TRANS	4		
53	E47227-039	FOOT ASSY		2		
54	SBST3008Z	SCREW	SHIELD+T.BKT	2		
55	VMH3020-001	HEAT SINK	AL T2 POWER IC	1		
56	SBST3008Z	SCREW	HEAT SINK+BOTTO	2		
58	SBSF3010Z	SCREW	IC+IC BKT	2		
59	VYH8124-001	AC JACK HOLDER	AC JACK,VOL SEL	1		
60	SBSF3008Z	SCREW	AC J.HOL+AC PWB	1		
61	SBST3008Z	SCREW	J.HOLDER+BOTTOM	1		
62	VMA4711-001	BARRIER	FOR AC/FUSE PWB	1		
63	VJG1439-006	REAR PANEL		1		
64	SDST3008M	SCREW	RAER PANEL+CHAS	2		
65	SSST3006Z	SCREW	FRONT+BOTTOM	2		
66	VJG1419-001	TOP COVER		1		
67	VYSS1R3-059	SPACER		1		
68	VKZ4614-002	SCREW	TOP.C+B.CHASS	4		
69	SBSF3008M	SCREW	TOP.C+R.PANEL	2		

BLOCK NO. M1MM						
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
70	SBST3006Z	SCREW	D.HOLDER+BOTTOM	1		
71	SBSF3008M	SCREW	FOR JACK	2		
72	E408091-001	GND TERMINAL		1		
73	VYN8306-002T	NAME PLATE		1	B	
	VYN9306-008T	NAME PLATE		1	G	
74	VYN9306-109T	NAME PLATE		1	EN	
	VYN9306-105T	NAME PLATE	TO REAR PANEL	1	E	
74	VND4118-004	CAUTION LABEL		1		
△ F1901	QMF51E2-R63SBS	FUSE		1		
△ F1902	QMF51A2-8R0J1	FUSE		1		
△ T 901	VTP09J2-12B	POWER TRANS		1		

1 2 3 4 5



■ CD/Tuner & Amplifier Unit Parts List

BLOCK NO. M2MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	VJK4496-00C	CD LENS ASS'Y	NO.51,52,81	1		
	1	VJC2576-003	FRONT PLATE(CD)		1		
	2	VJG1420-006	FRONT PANEL(CD)		1		
	3	VJK4486-002	LCD LENS		1		
	4	VXP3801-002	FUN. BUTTON	BUTTON(A)	1		
	5	VXP3805-002	F.BUTTON 2		1		
	6	SBSF2608Z	SCREW	F.P+BUT+PWB	6		
	7	E408131-001	REMOTE LENS		1		
	8	VJK4485-001	LED LENS		2		
	9	VJF4003-001	FOOT	FOR F.PANEL	2		
	10	VKL1443-001	BOTTOM CHASSIS		1		
	11	GBST3006Z	SCREW	TU PWB+CHASSIS	3		
	12	GBST3006Z	SCREW	FUNC PWB+CHASSI	4		
	14	E47227-039	FOOT ASSY		2		
	15	SBST3008Z	SCREW	F.ASSY+CHASSIS	2		
	16	VMA4704-001	BARRIER		1		
	17	-----	C.D MECHA ASS'Y	OPTIMA-6	1		
	18	VJD5410-005	PICK COVER		1		
	19	SDSF2006M	SCREW	CD MECHA+P.COVE	4		
	20	E75609-001	INSULATOR		2		
	21	E75609-002	INSULATOR		2		
	22	VYH3937-001	CD MECHA HOLDER		1		
	23	SBSF3010Z	SCREW	CASE+HOLDER	2		
	24	VYH7815-001	CD MECHA HOLDER		1		
	25	SBSF3010Z	SCREW	CASE+HOLDER	2		
	28	VJD1208-009	CD CASE		1		
	29	VYSR102-065	SPACER		2		
	30	VYH3935-002	GEAR BKT		1		
	31	VYH7356-201	PULLEY		1		
	32	VYH7357-201	GEAR(A)		1		
	33	VYH8076-001	GEAR(B)		1		
	34	GBSG3008Z	TAP.SCREW		1		
	35	MXN-13FB12F	DC MOTOR ASS'Y		1		
	36	SPSP3004Z	SCREW	PULLEY+GEAR BKT	2		
	37	VYH7699-001	PULLEY	CASSETTE DOOR	1		
	38	VKB3000-175	BELT	FOR MOTOR	1		
	39	SBSF3010Z	SCREW	MOTOR	1		
	40	SBSF3010Z	SCREW		1		
	41	GBSF3010Z	TAPPING SCREW	CD CASE+GEAR BK	1		
	42	VKZ4001-110	WIRE CLAMP	FOR WIRE CLAMP	1		
	43	SBSF3010Z	SCREW	SW PWB+CD CASE	1		
	44	VJT2373-003UL	CD DOOR		2		
	45	VJC3296-001	PLATE	CD AMP PWB+CD	1		
	46	VYH3970-002	DOOR SUPORT		1		
	47	VYH3726-001SS	CLAMPER		1		
	48	VYH7313-003	MAGNET		1		
	49	VYH7677-201	YODE		1		
	50	SDSF2606Z	SCREW	FOR CLAMPER	1		
	51	-----	CD LENS		1		
	52	-----	DOOR PLATE		1		
	53	SDSF2006M	SCREW	DOOR+LENS	10		
	54	VJG1421-003	REAR COVER(T)		1		
	55	VJC3293-001	SIDE PANEL(L)		1		
	56	VJC3294-001	SIDE PANEL(R)		1		

BLOCK NO. M2MM11111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57	VXL4447-002	VOLUME KNOB		1		
	58	SBSF3010Z	SCREW	CD+CHASSIS UNIT	2		
	59	SSST3006Z	SCREW	F.PANEL+CHASSIS	2		
	60	SSST3006Z	SCREW	R.COVER+CHASSIS	2		
	61	SXST3008NW	SCREW	F.PLATE+CHASSIS	2		
	62	SBSF3008M	SCREW	R.COVER+JACK	5		
	63	VKZ4614-002	SCREW	CHASSIS+S.PANEL	4		
	64	VYH8103-002	IC HOLDER(A)		1		
	65	VYH8085-001	IC HOLDER(B)		1		
	66	SBSF3010Z	SCREW		1		
A	67	VYN9306-101	NAME PLATE		1		
	68	VMH4053-201	HEAT SINK		1		
	69	SBST2612Z	SCREW	H.SINK+IC HOL(A)	2		
	70	SBST3006Z	SCREW	HEAT SINK+CHASS	2		
	71	VYH7991-003	WIRE HOLDER		1		
	72	SBSF3010Z	SCREW	IC HOL(B)+HEAT	1		
	75	VYH8125-001	WIRE SHIELD		1		
	76	SBST3006Z	SCREW	FOR WIRE SHIELD	2		
	77	VYH8127-001	PAD		1		
	78	VYH8128-001	DOOR PAD		1		
	79	VYH8123-001	HOOK		1		
	80	VYH3980-001	LENS CASE		1		
	81	-----	SHEET		3		
	82	VJK4501-001	LENS		1		
	83	VYH8166-001	SHEET		1		
	84	VGL1216-001	LCD	DI711	1		
	85	E406709-001	LASER CAUTION		1		
	86	E70891-001	CLASS 1 LABEL		1		
	87	VND4118-004	CAUTION LABEL		1		
	88	VMA4717-001	LAMP SHEET		1		

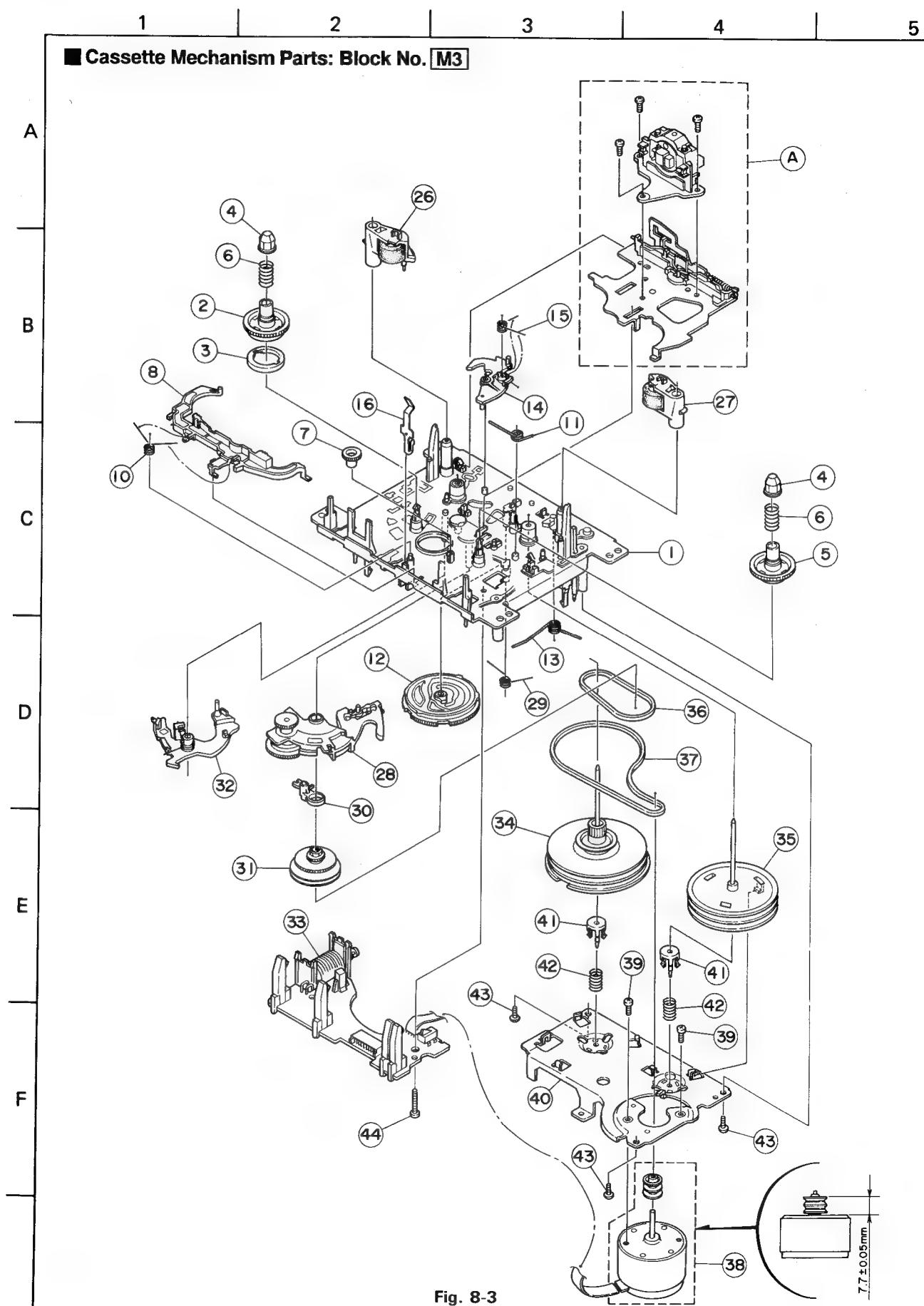


Fig. 8-3

■ Cassette Mechanism Parts List

BLOCK NO. 13MM 1111

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	VKM3890-00A	HEAD BASE		1		
1	VKS1147-00A	CHASSIS B. ASY		1		
2	VKS3707-002	REEL GEAR		1		
3	VKZ4690-002	MAGNET		1		
4	VKS3708-002	REEL FEATHER		2		
5	VKS3707-002	REEL GEAR		1		
6	VKW5162-002	B.T. SPRING		2		
7	VKS5519-002	IDLER GEAR		1		
8	VKS2261-002	REEL BRAKE		1		
10	VKW5178-001	BRAKE SPRING		1		
11	VKW5202-002	LIFTER SPRING		1		
12	VKS1150-002	CONTROL CAM		1		
13	VKW5170-002	CAM SPRING		1		
14	VKS2255-001	DIR. TRIGGER		1		
15	VKW5163-001	DIR. SPRING		1		
16	VKY4670-001	CASSETTE SPRING		1		
26	VKP4231-00B	P.ROLLER(R) ASY		1		
27	VKP4232-00B	P.ROLLER(L) ASY		1		
28	VKS3714-00B	FR ARM ASY		1		
29	VKW5173-001	FR SPRING		1		
30	VKS3719-002	ELEVATOR RING		1		
31	VKS5523-00C	MAIN PLY ASY		1		
32	VKS5525-00B	TRIGGER ARM ASY		1		
33	VKZ3174-00A	DC SOLENOID		1		
34	VKF3200-00A	F.WHEEL (R) ASY		1		
35	VKF3202-00A	F.WHEEL (L) ASY		1		
36	VKB3000-167	REEL BELT		1		
37	VKB3000-160	CAPSTAN BELT		1		
38	MSI-5B2LW	D.C.MOTOR		1		
39	SPSP2603Z	SCREW	CAPSTAN -SA4	2		
40	VKM3833-001	FM BRACKET		1		
41	VKS5524-001	THRUST GUIDE		2		
42	VKW5177-002	THRUST SPRING		2		
43	SBSF2608Z	SCREW		3		
44	SDST2612Z	SCREW		1		

1

2

3

4

5

■ CD Mechanism Parts: Block No. M4

A

B

C

D

E

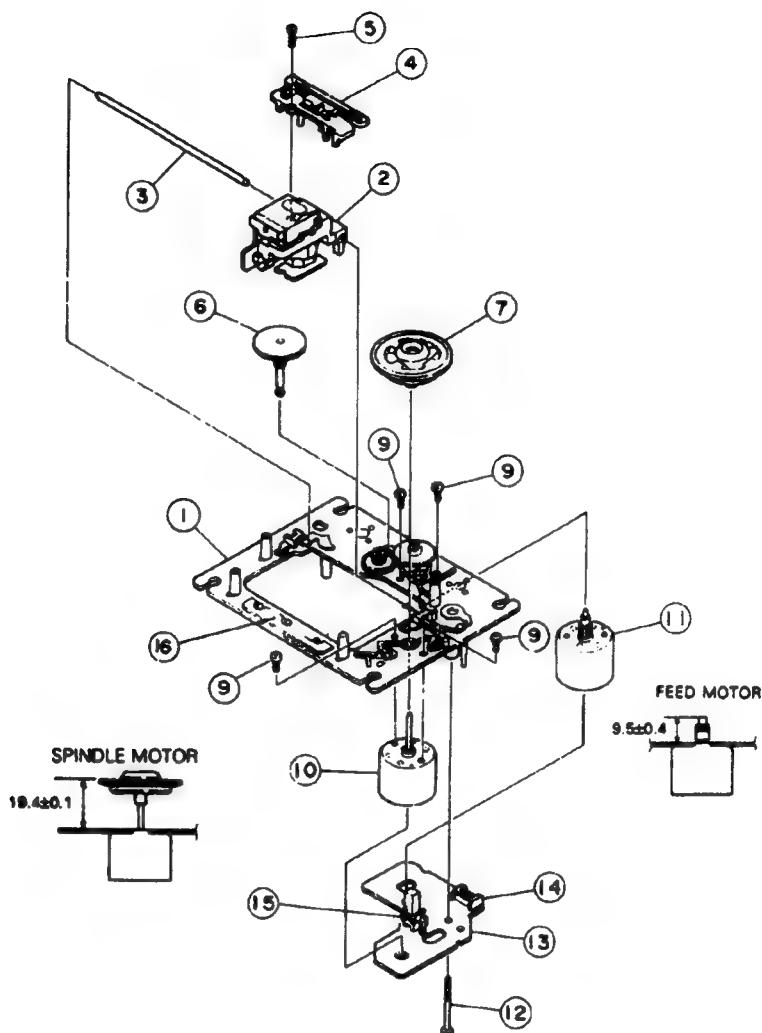


Fig. 8-4

■ CD Mechanism Parts List

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	BASE ASS'Y		1		
	2	OPTIMA-6S	PIC-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

9. Wiring Connections

1 2 3 4 5 6 7 8 9 10

■ Deck & Power Supply Unit

A	Color codes are shown below.								
1	..... Brown								
2	..... Red								
3	..... Orange								
4	..... Yellow								
5	..... Green								
6	..... Blue								
7	..... Violet								
8	..... Gray								
9	..... White								
0	..... Black								
D	..... Pink								
C	..... Light Blue								

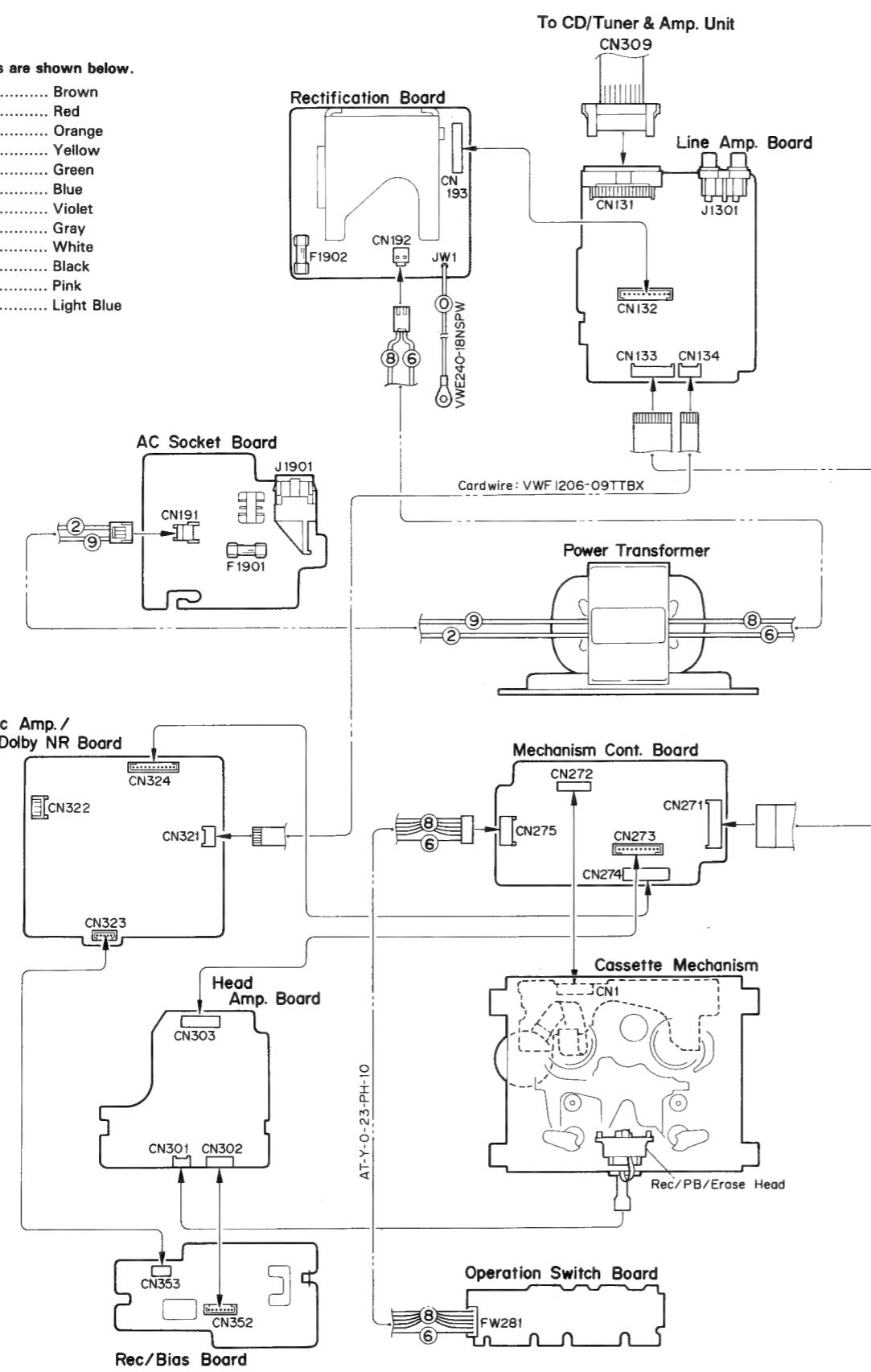


Fig. 9-1

■ CD/Tuner & Amplifier Unit

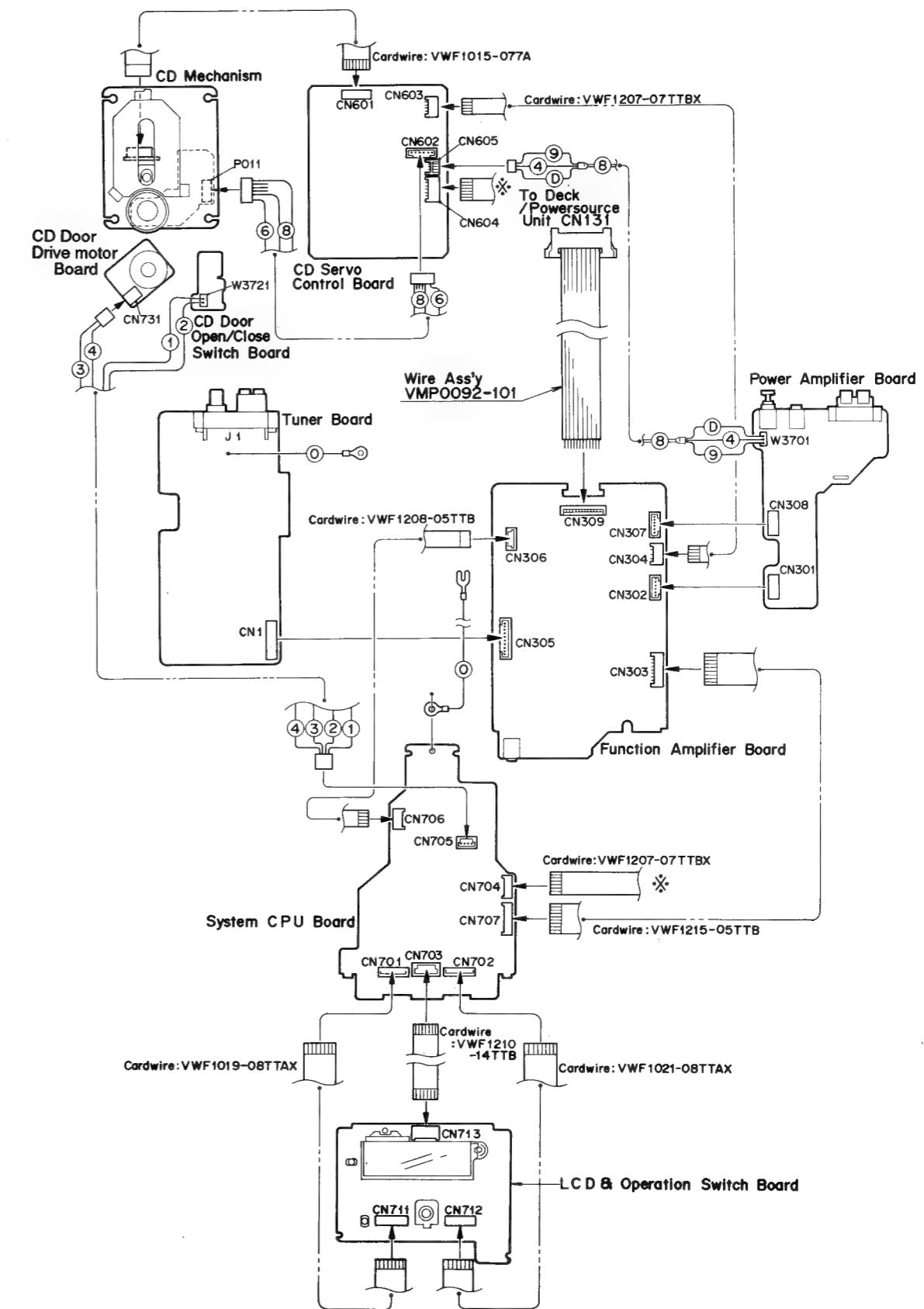


Fig. 9-2

10. Block Diagram

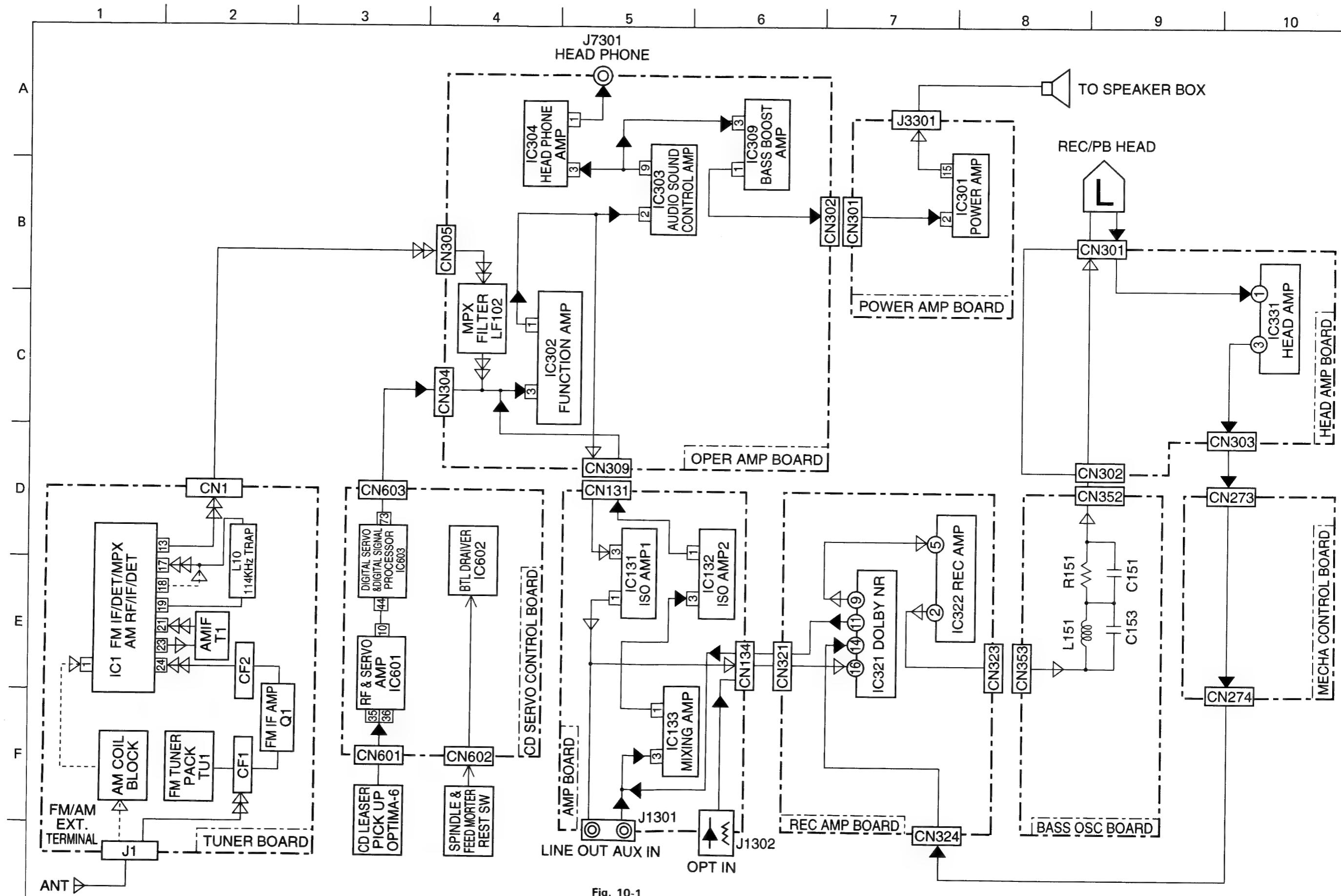


Fig. 10-1

11. Standard Schematic Diagrams

1 2 3 4 5 6 7 8 9 10

■ Head Amplifier & Mechanism Control Circuit: Drawing No. VDH9306-005PV

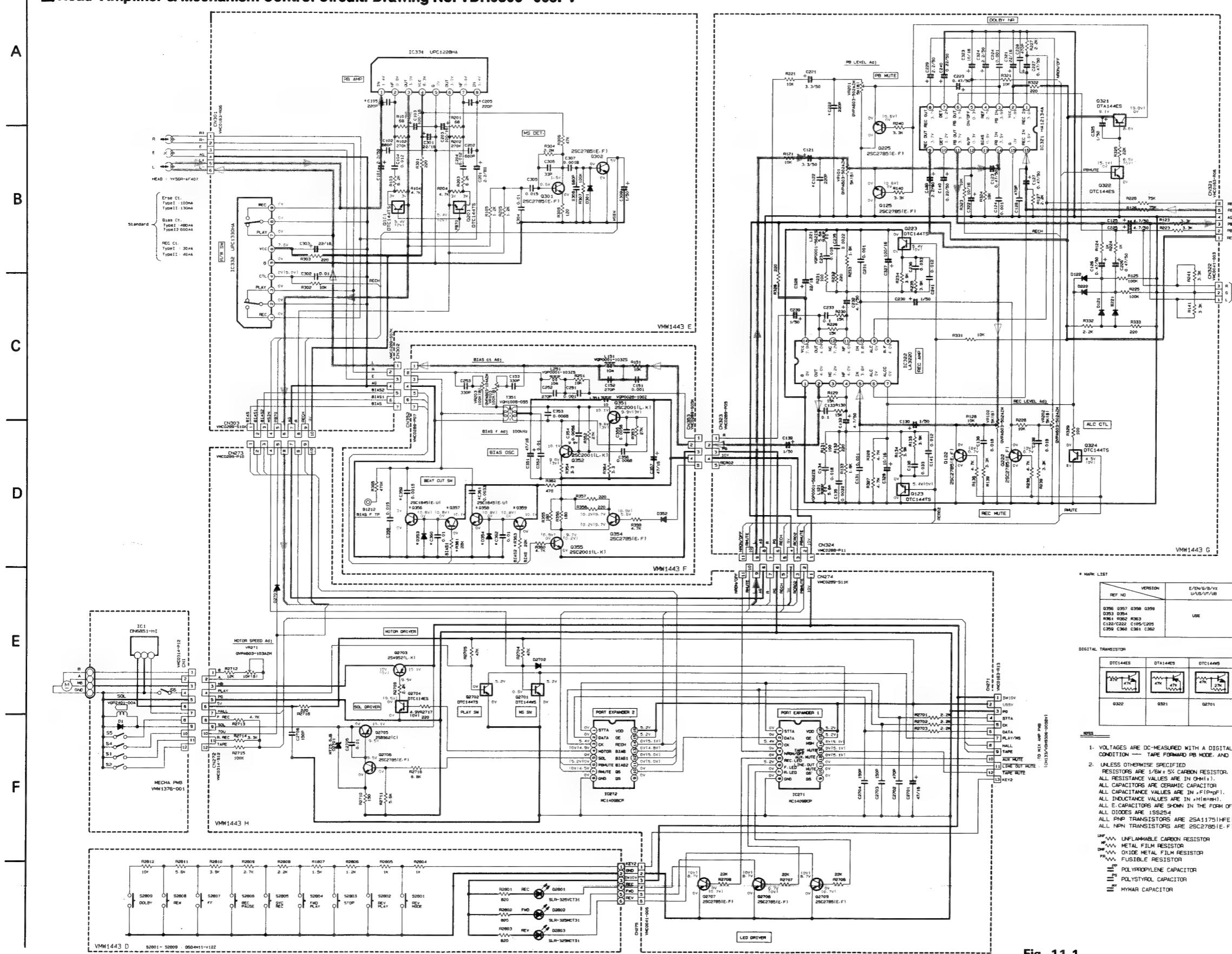
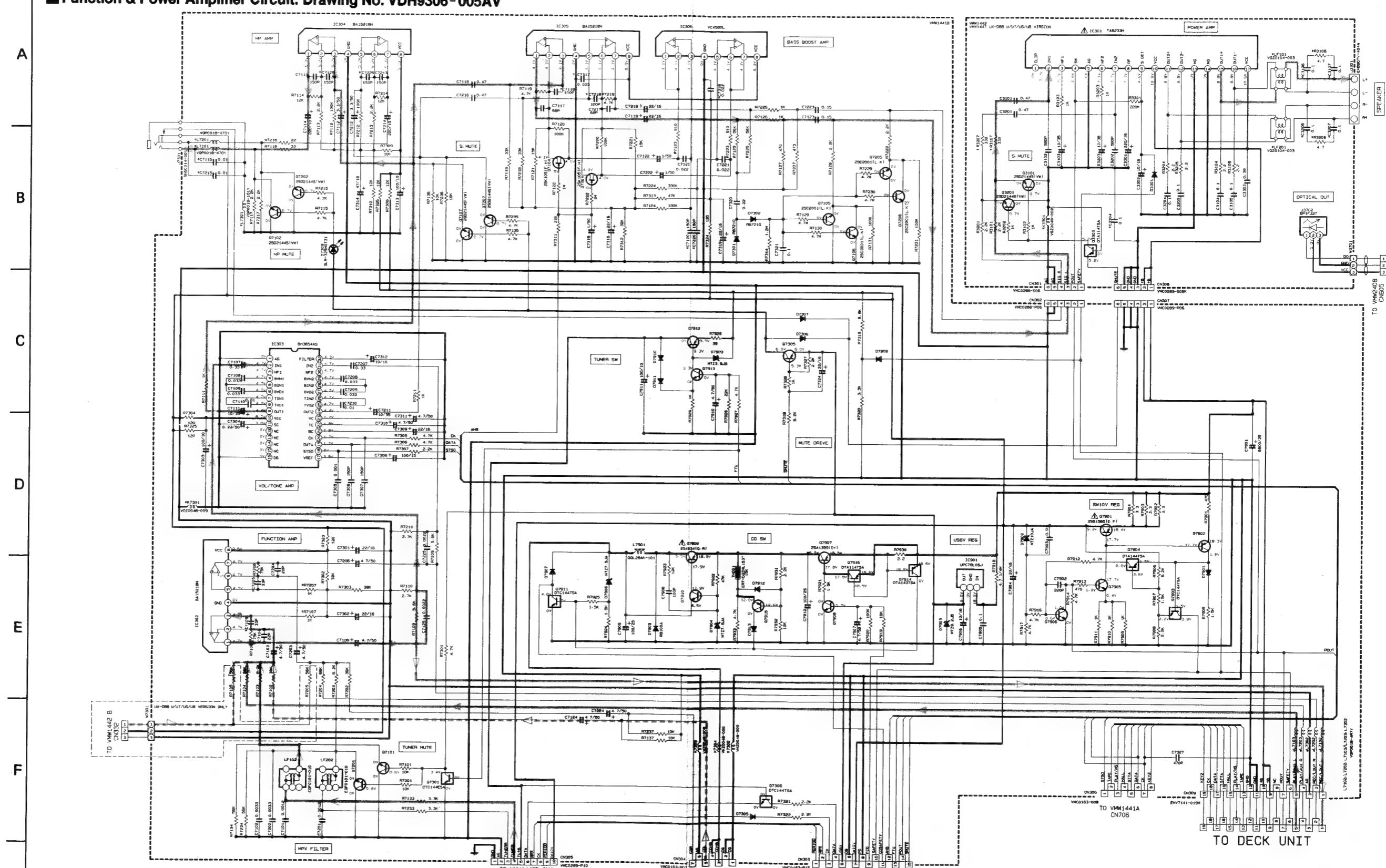


Fig. 11-1

Note : VDH9306005PV(s/G)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10



(No. 10030) 58

Fig. 11-2

Note : VDH9306005AV(/s/G)

TABLE I DIGITAL TRANSISTOR					
DT1144ESA	DT1143ESA	DT1141TSA	DT1143TSA	DT1144TSA	DT1144TS
					

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION --- C STOP MODE
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE $1/8W \pm 5\%$ CARBON RESIST. ALL RESISTANCE VALUES ARE IN Ω ($\text{M}\Omega$). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN F (pF).

CN603
 ALL INDUCTANCE VALUES ARE IN μ H (mH).
 ALL E. CAPACITORS ARE SHOWN IN THE FORM
 OF CAPACITANCE (F) DIVIDED BY RATED VOLTAGE (V).
 ALL DIODES ARE 1SS254A (OR HSS104TJ) OR MA1
 ALL NPN TRANSISTOR ARE 2SC2785 (E.F.)
 ALL PNP TRANSISTOR ARE 2SA1175 (HFII)

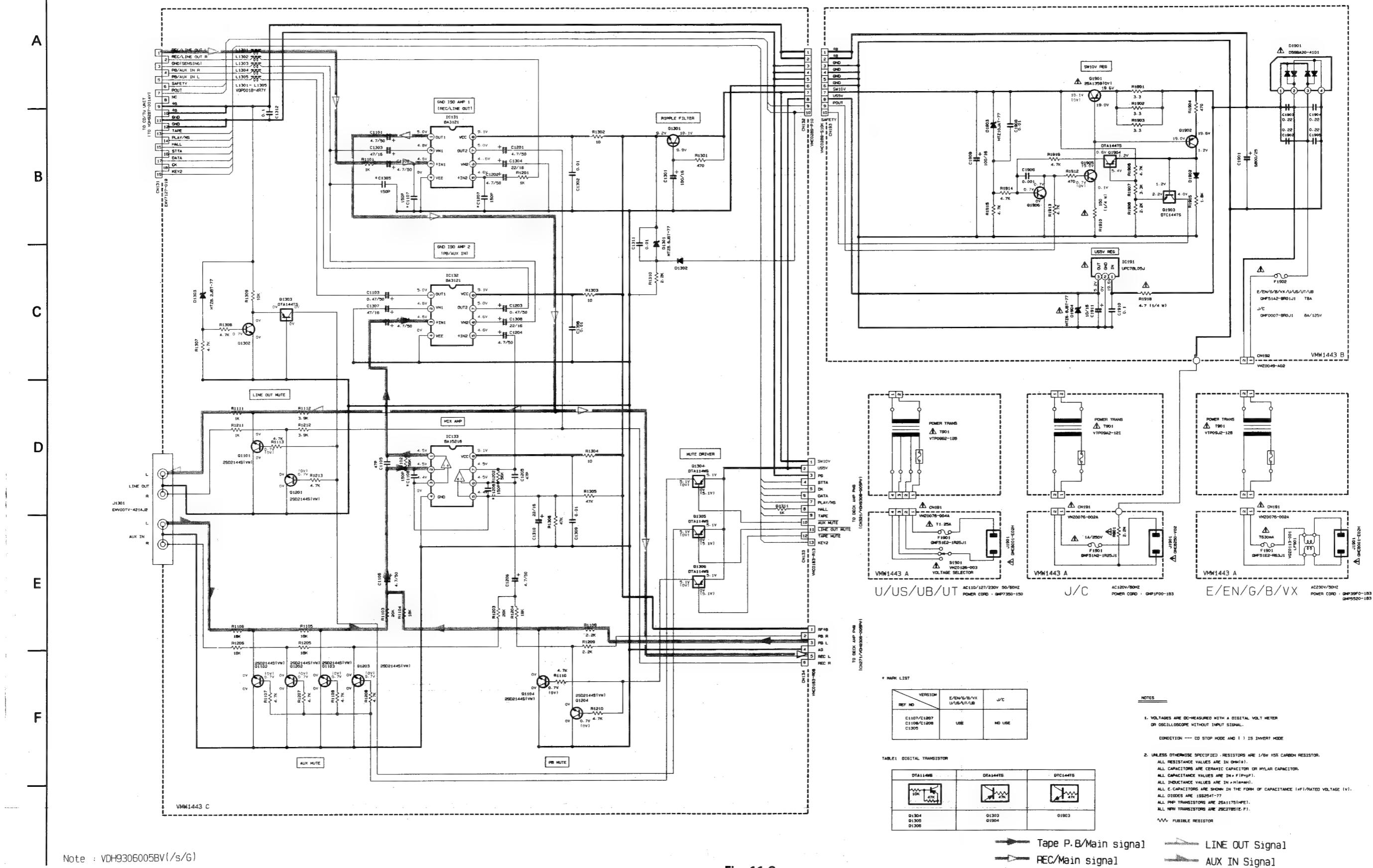
3. #MARKS ARE B/E/C/GN VERSION ONLY
OTHER VERSIONS ARE OPEN OR SHORT
OPEN: C3106/C3206 C3107/C3207 C3304 R3105/R3206
C7105/C7205 C7115/C7215 C7118/C7218 C7120/C7220
C7126/C7226 C7317 C7318
SHORT: L101/L102-P101-R101-R3207-K3301-L7101/L7201-L7102/L7202
L7103/L7203-L7301-L7302-K7301-R107-R7207

→ Tape P.B/Main signal
→ REC/Main signal
→ CD Analogue signal

FM Radio signal
MIC Input signal
+B Line

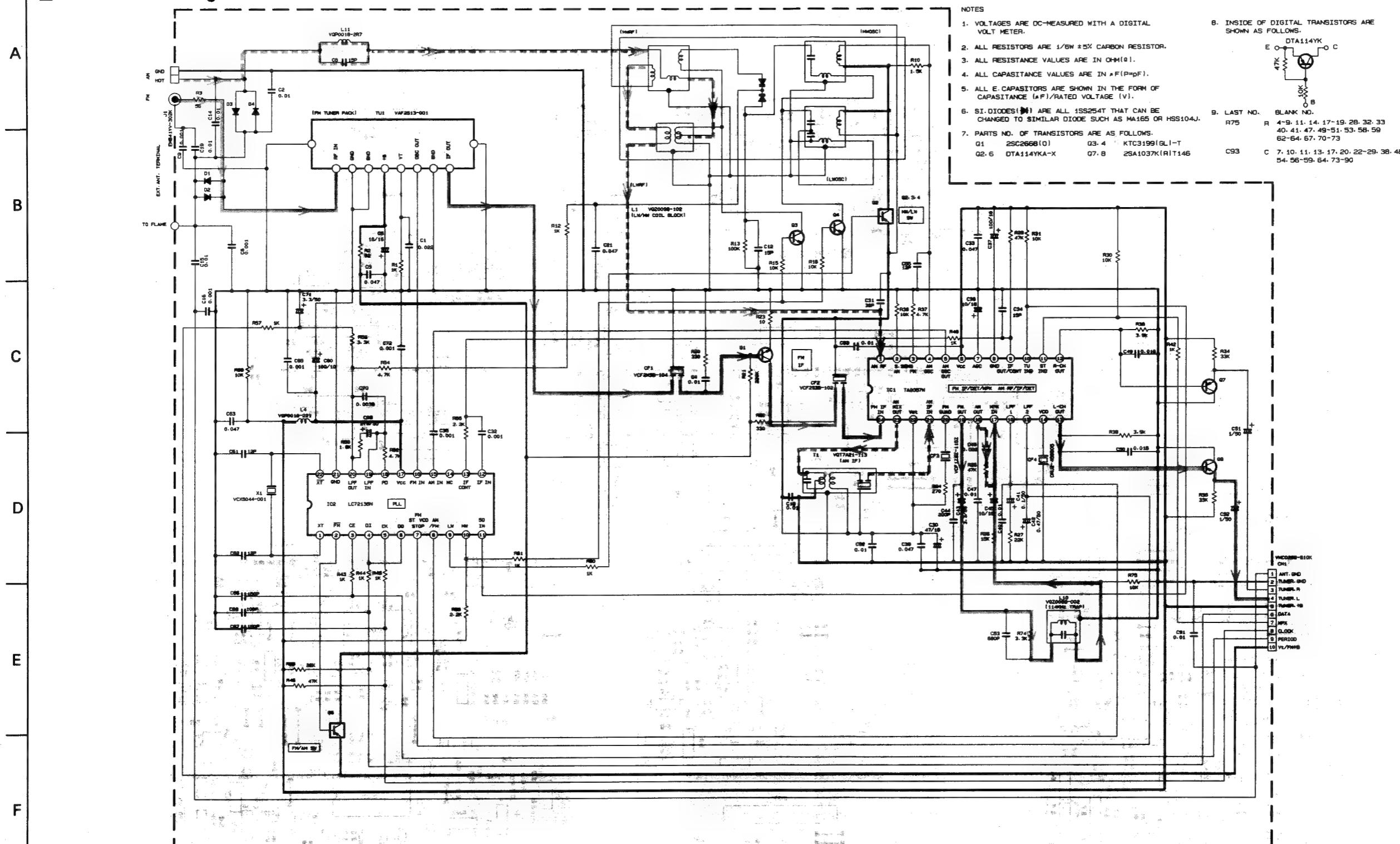
1 2 3 4 5 6 7 8 9 10

■ Line Amplifier & Power Source Circuit: Drawing No. VDH9306-005BV



1 2 3 4 5 6 7 8 9 10

■ Tuner Circuit: Drawing No. VDH9306-005TW



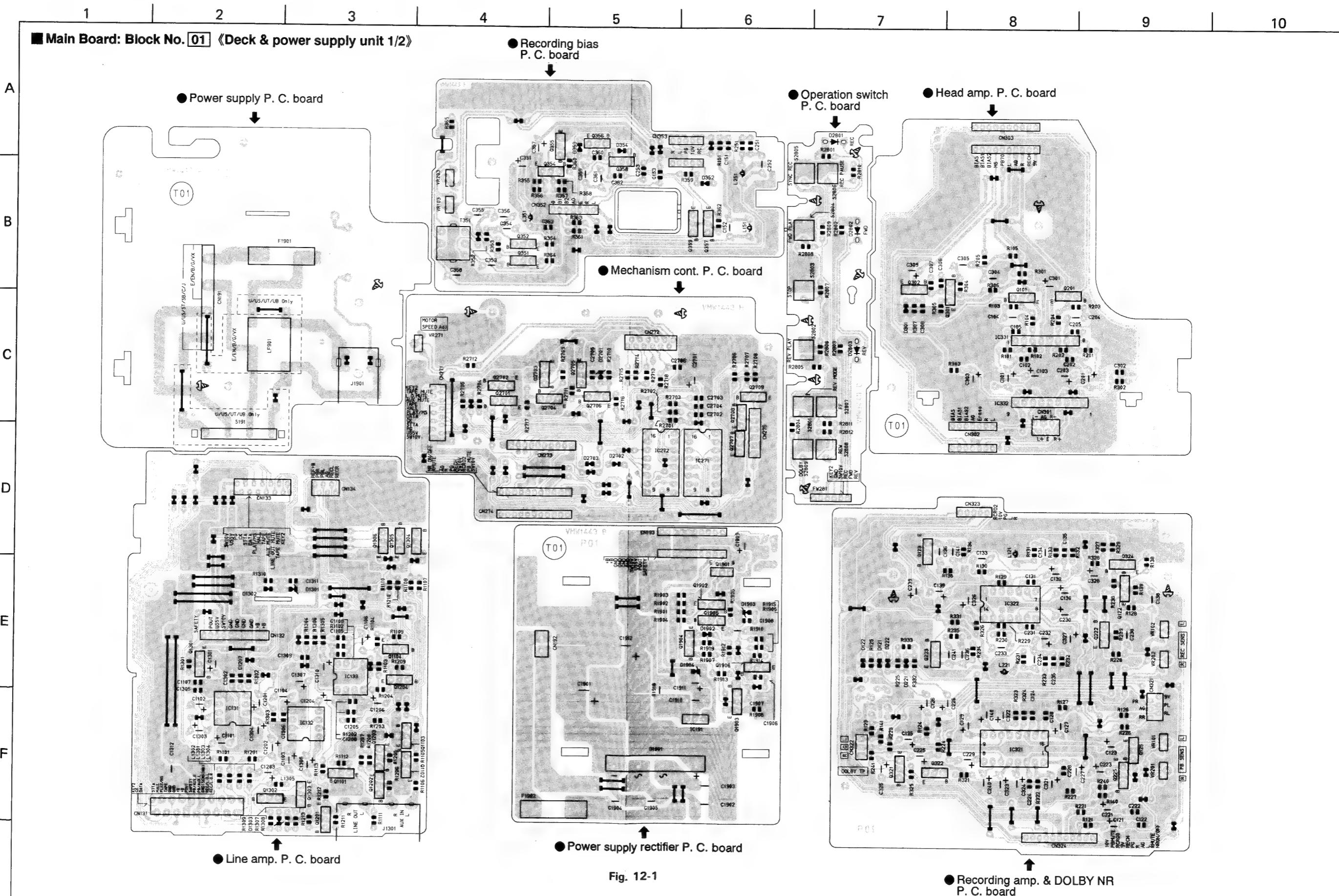
CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FM NO SIGNAL	2.0	0.5	0	2.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0		
IC1 FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0	
AM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0	
IC2 FM NO SIGNAL	2.4	0	0	1.1	5.0	1.1	3.7	3.7	2.0	3.6	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7			

Fig. 11-5

Tr. NO.	Q1	Q6	Q7	Q8
PIN NO.	E C B	E C B	E C B	E C B
FM 87.5MHz NO SIGNAL	0 8.5	0.7	10.0	9.0
AM 522kHz NO SIGNAL	0 0	0	10.0	0
Tr. NO.	Q2	Q3	Q4	
PIN NO.	E C B	E C B	E C B	
AM 522kHz NO SIGNAL	2.0	2.0	0.1	0
AM 14.4kHz NO SIGNAL	2.0	2.0	0	0

Note : VDH9306005TW(/s/G)

12. Location of P. C. Board Parts



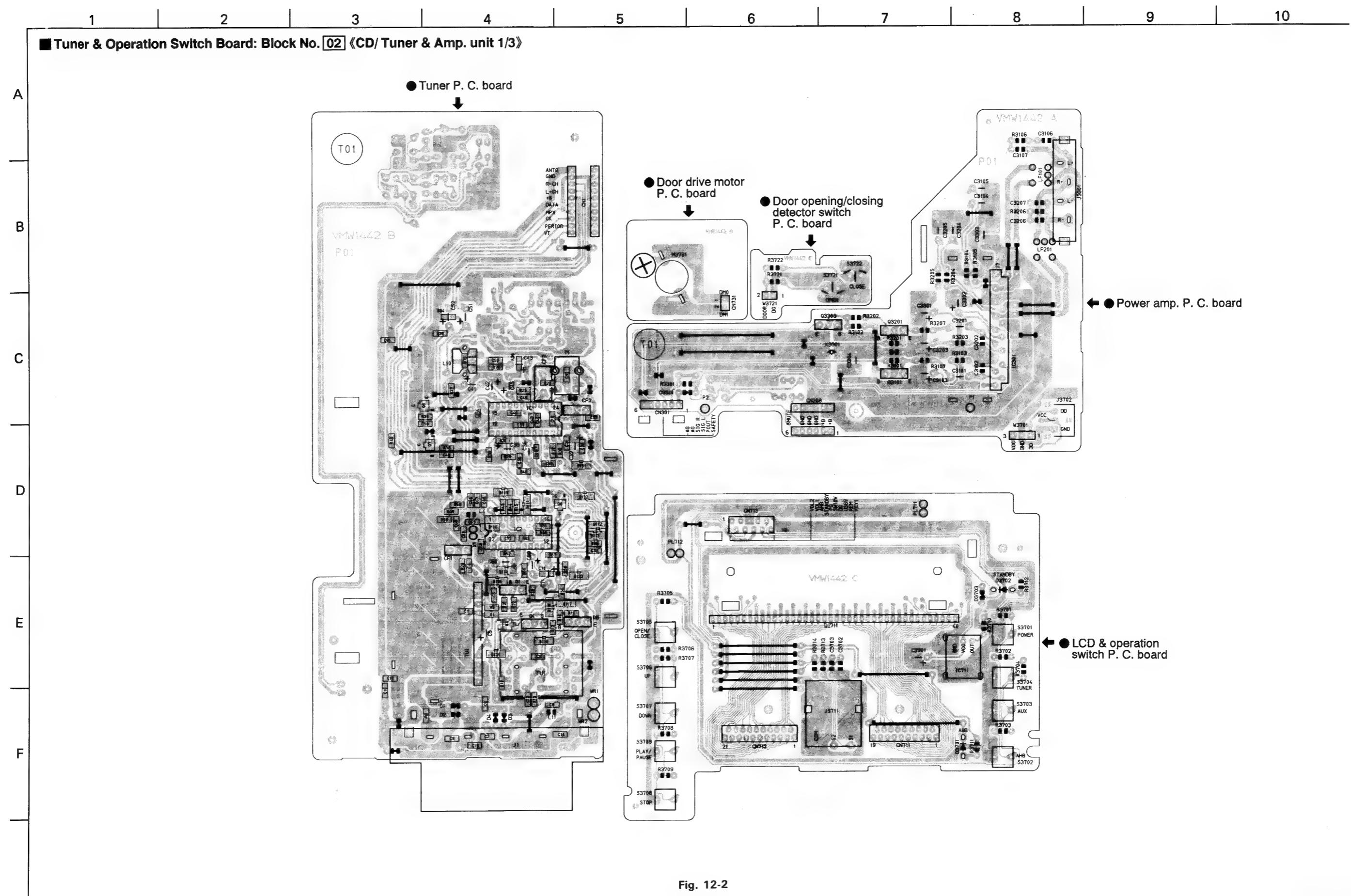


Fig. 12-2

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

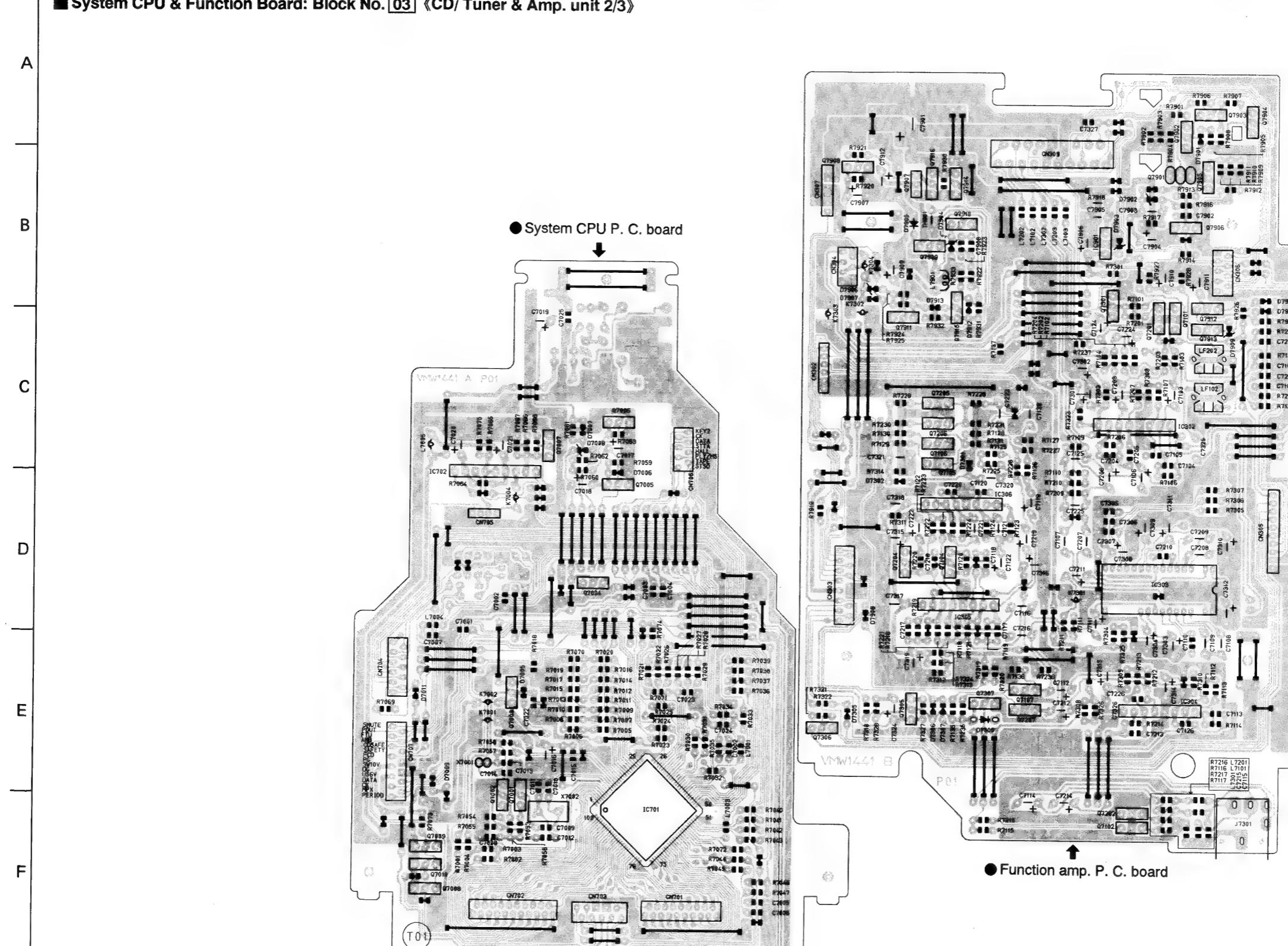


Fig. 12-3

1 2 3 4 5

■ CD Servo Control Board: Block No. 04 (CD/ Tuner & Amp. unit 3/3)

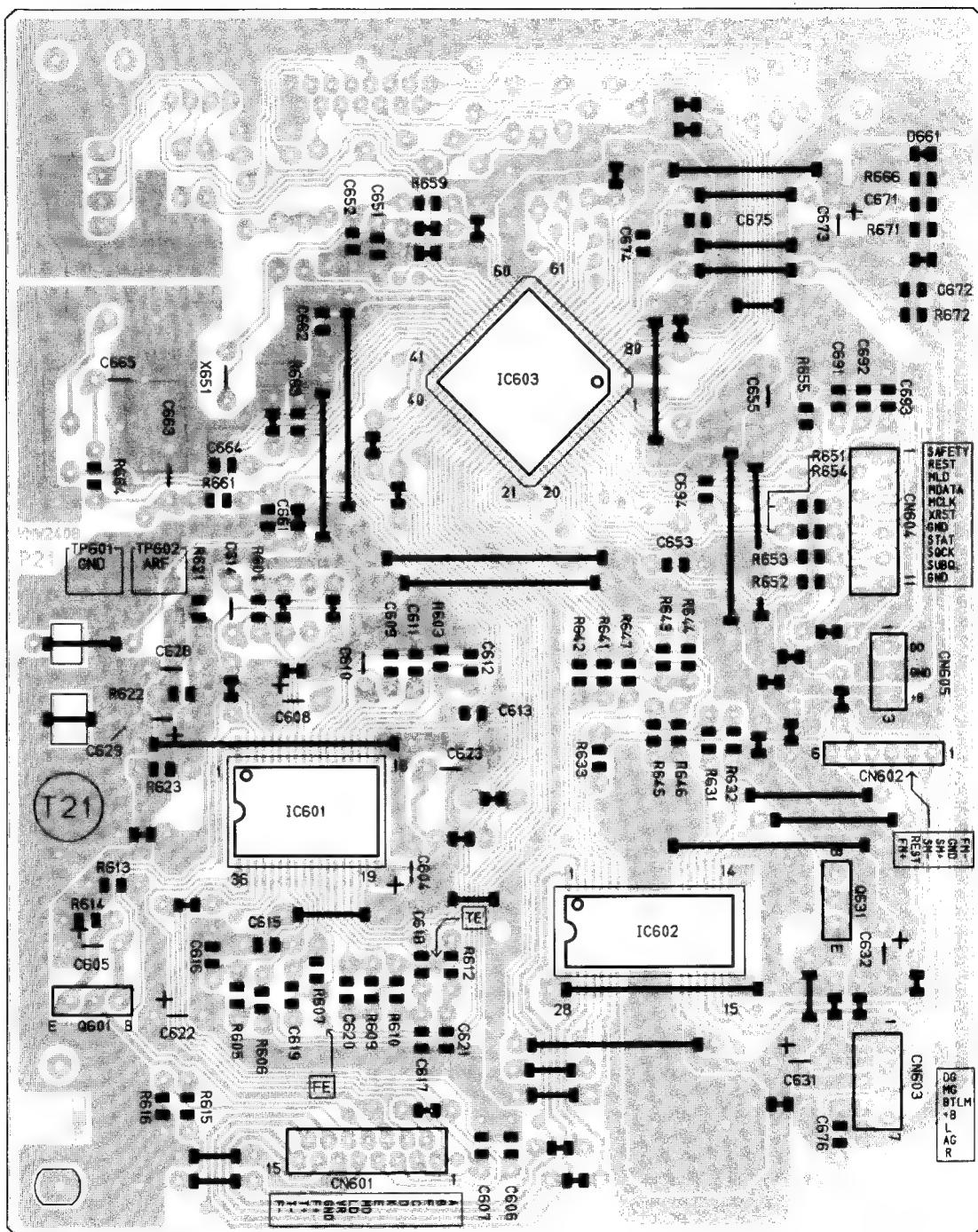
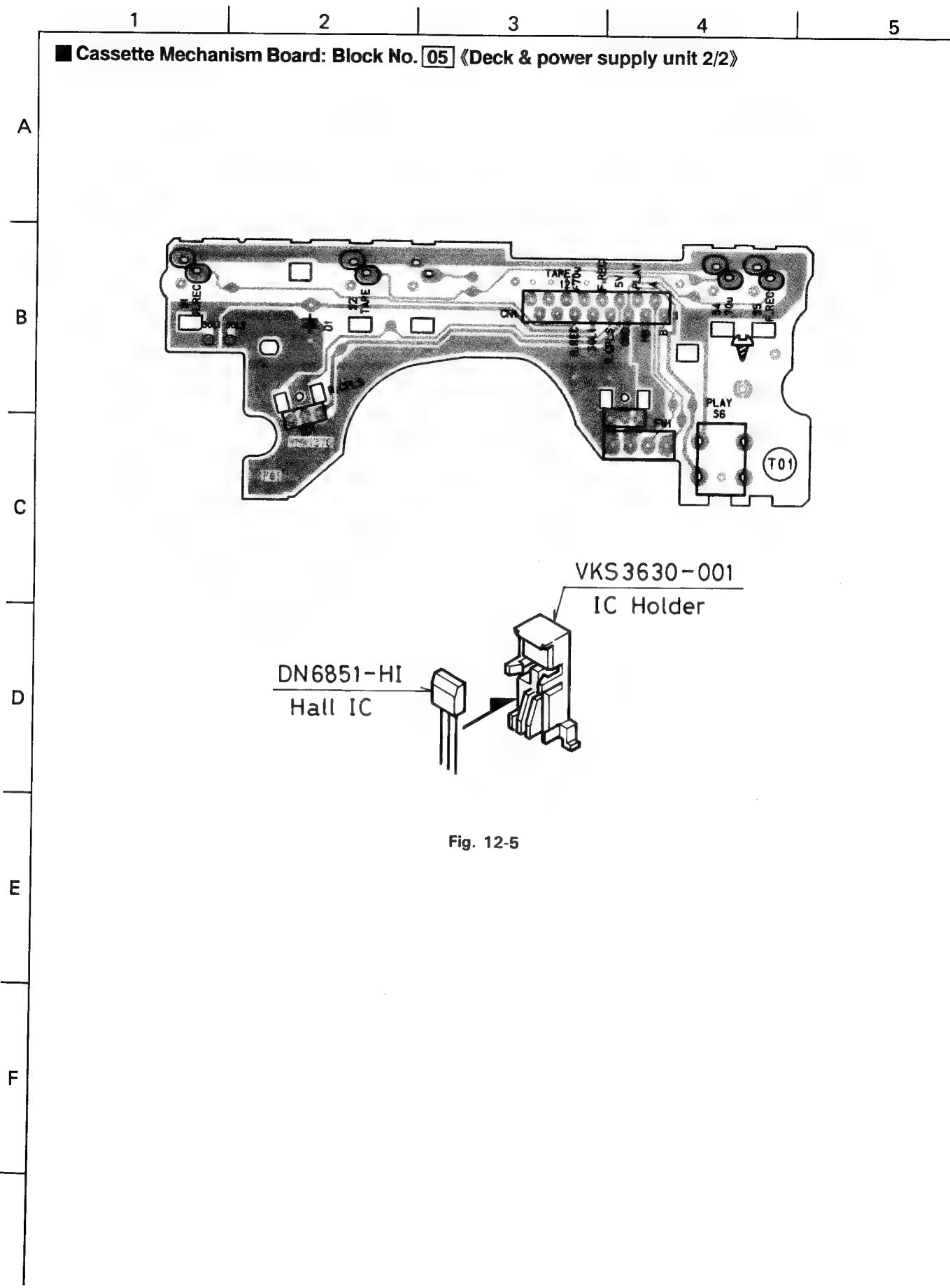
A
B
C
D
E
F

Fig. 12-4



13. Electrical Parts List

Main Board

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 01111111
C 101	QEK41HM-225	E-CAPACITOR	PB AMP			
C 102	QCBB1HK-681Y	C-CAPACITOR	PB AMP			
C 103	QEK61CM-1072N	C-CAPACITOR	PB AMP			
C 104	QFV41HM-1232M	FILM CAPACITOR	PB AMP			
C 105	QCBB1HK-221Y	C-CAPACITOR	PB AMP			
C 121	QER61HM-3352M	E-CAPACITOR	DOLBY AMP			
C 122	QCBB1HK-221Y	E-CAPACITOR	DOLBY AMP			
C 123	QEK41HM-474	E-CAPACITOR	DOLBY AMP			
C 124	QCBB1HK-102Y	E-CAPACITOR	DOLBY AMP			
C 125	QEK51HM-475	E-CAPACITOR	DOLBY AMP			
C 126	QEK41HM-474	E-CAPACITOR	DOLBY AMP			
C 127	QEK41HM-474	E-CAPACITOR	ALC			
C 128	QCBB1HK-471Y	C-CAPACITOR	DOLBY AMP			
C 129	QEK41HM-225	E-CAPACITOR	DOLBY AMP			
C 130	QEK41HM-105	E-CAPACITOR	REC AMP			
C 131	QCBB1HK-102Y	C-CAPACITOR	REC AMP			
C 132	QEK51HM-475	E-CAPACITOR	REC AMP			
C 133	QFV41HM-1042M	FILM CAPACITOR	REC AMP			
C 134	QFV81HK-183	FILM CAPACITOR	REC AMP			
C 135	QCXB1CM-222Y	C-CAPACITOR	REC AMP			
C 136	QFV41HK-333	FILM CAPACITOR	REC AMP			
C 138	QFV81HK-183	FILM CAPACITOR	REC AMP			
C 139	QEK41HM-105	E-CAPACITOR	REC AMP			
C 140	QEK41HM-224	E-CAPACITOR	DOLBY AMP			
C 151	QFV41HM-1232M	FILM CAPACITOR	REC AMP			
C 152	QCS11HM-271	C-CAPACITOR	BIAS OSC			
C 153	QCBB1HK-331Y	C-CAPACITOR	BIAS OSC			
C 201	QEK1HM-225	E-CAPACITOR	PB AMP			
C 202	QCBB1HK-681Y	C-CAPACITOR	PB AMP			
C 203	QEK61CM-1072N	E-CAPACITOR	PB AMP			
C 204	QFV41HM-1232M	FILM CAPACITOR	PB AMP			
C 205	QCBB1HK-221Y	C-CAPACITOR	PB AMP			
C 221	QER61HM-3352M	E-CAPACITOR	DOLBY AMP			
C 222	QCBB1HK-221Y	C-CAPACITOR	DOLBY AMP			
C 223	QEK41HM-474	E-CAPACITOR	DOLBY AMP			
C 224	QCBB1HK-102Y	C-CAPACITOR	DOLBY AMP			
C 225	QEK51HM-475	E-CAPACITOR	DOLBY AMP			
C 226	QEK41HM-474	E-CAPACITOR	DOLBY AMP			
C 227	QEK41HM-474	E-CAPACITOR	ALC			
C 228	QCBB1HK-471Y	C-CAPACITOR	DOLBY AMP			
C 229	QEK41HM-225	E-CAPACITOR	DOLBY AMP			
C 230	QEK41HM-105	E-CAPACITOR	REC AMP			
C 231	QCBB1HK-102Y	C-CAPACITOR	REC AMP			
C 232	QEK51HM-475	E-CAPACITOR	REC AMP			
C 233	QFV41HM-1042M	FILM CAPACITOR	REC AMP			
C 234	QFV81HK-183	FILM CAPACITOR	REC AMP			
C 235	QCXB1CM-222Y	C-CAPACITOR	REC AMP			
C 236	QFV41HK-333	FILM CAPACITOR	REC AMP			
C 238	QFV81HK-183	FILM CAPACITOR	REC AMP			
C 239	QEK41HM-105	E-CAPACITOR	DOLBY AMP			
C 240	QEK41HM-224	E-CAPACITOR	REC AMP			
C 251	QFV41HK-102Y	FILM CAPACITOR	REC AMP			
C 252	QCS11HK-271	C-CAPACITOR	BIAS OSC			

A	REF.	PARTS NO.	PARTS NAME	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 01111111
C 253		QCBB1HK-331Y	C-CAPACITOR	C 301	QEK41CM-226	BIAS OSC		
C 302		QCBV1CM-103Y	E-CAPACITOR	C 302	QCBV1CM-103Y	PB AMP	R/P SW	
C 303		QEK41CM-226	E-CAPACITOR	C 303	QFV71HK-103	R/P SW	R/P SW	
C 304		QFV71HK-103	FILM CAPACITOR	C 304	QEK41HM-1532M	FILM CAPACITOR	MS DET	
C 305		QEK41HM-1532M	FILM CAPACITOR	C 305	QFV41HM-1532M	FILM CAPACITOR	MS DET	
C 307		QCS11HK-330	C-CAPACITOR	C 307	QCXB1CM-182Y	C-CAPACITOR	MS DET	
C 308		QCXB1CM-182Y	C-CAPACITOR	C 308	QCBB1HK-681Y	C-CAPACITOR	MS DET	
C 309		QEK41HM-105	E-CAPACITOR	C 309	QEK41HM-105	E-CAPACITOR	MS DET	
C 321		QEK41CM-226	E-CAPACITOR	C 321	QEK41CM-106	E-CAPACITOR	DOLBY AMP	
C 322		QEK41CM-106	E-CAPACITOR	C 322	QEK41CM-106	E-CAPACITOR	DOLBY AMP	
C 323		QEK41CM-106	E-CAPACITOR	C 323	QEK41CM-106	E-CAPACITOR	DOLBY AMP	
C 324		QEK41CM-225	E-CAPACITOR	C 324	QEK41HM-105	E-CAPACITOR	DOLBY AMP	
C 325		QEK41HM-105	E-CAPACITOR	C 325	QCBV1CM-105	E-CAPACITOR	REC AMP	
C 326		QEK41CM-226	E-CAPACITOR	C 326	QEK41CM-1072N	E-CAPACITOR	REC AMP	
C 327		QEK41CM-1072N	E-CAPACITOR	C 327	QFNB1HK-562	M-CAPACITOR	REC AMP	
C 351		QEK41CM-476	E-CAPACITOR	C 351	QEK41CM-476	E-CAPACITOR	BIAS OSC	
C 352		QCBV1CM-103Y	E-CAPACITOR	C 352	QFNB1HK-682	M-CAPACITOR	BIAS OSC	
C 353		QFNB1HK-682	M-CAPACITOR	C 353	QFNB1HK-562	M-CAPACITOR	BIAS OSC	
C 354		QFNB1HK-562	M-CAPACITOR	C 354	QFNB1HK-562	M-CAPACITOR	BIAS OSC	
C 355		QFNB1HK-562	M-CAPACITOR	C 355	QFNB1HK-562	M-CAPACITOR	BIAS OSC	
C 356		QFNB1HK-682	M-CAPACITOR	C 356	QFNB1HK-682	M-CAPACITOR	BIAS OSC	
C 357		QEK41CM-476	E-CAPACITOR	C 357	QFNB1HK-1532M	PP-CAPACITOR	BEAT CUT	
C 358		QFNB1HK-1532M	PP-CAPACITOR	C 358	QFNB1HK-1532M	PP-CAPACITOR	BEAT CUT	
C 359		QFNB1HK-1532M	PP-CAPACITOR	C 359	QFNB1HK-1532M	PP-CAPACITOR	BEAT CUT	
C 360		QCBV1CM-103Y	C-CAPACITOR	C 360	QCBV1CM-103Y	C-CAPACITOR	BEAT CUT	
C 361		QFNB1HK-532	M-CAPACITOR	C 361	QFNB1HK-532	M-CAPACITOR	BEAT CUT	
C 362		QCBV1CM-103Y	C-CAPACITOR	C 362	QCBV1CM-103Y	C-CAPACITOR	BEAT CUT	
CN131		EMV7127-019	19P CONNECTOR	CN132	VMC0289-P10	CONNECTOR	CONNECTOR	
CN133		VMC0163-R13	CONNECTOR	CN134	VMC0163-R06	CONNECTOR	CONNECTOR	
CN191		VM20076-002A	CONNECTOR	CN192	VMC0289-S12	CONNECTOR	CONNECTOR	
CN272		VMC0314-S12	CONNECTOR	CN273	VMC0289-P10	CONNECTOR	CONNECTOR	
CN274		VMC0289-S11K	CONNECTOR	CN275	VMC0041-006	CONNECTOR	CONNECTOR	
CN301		VMC0163-R06	CONNECTOR	CN302	VMC0289-S07	CONNECTOR	CONNECTOR	
CN303		VMC0289-S10K	CONNECTOR	CN321	VMC0163-R06	CONNECTOR	CONNECTOR	
CN322		VMC0041-003	CONNECTOR	CN323	VMC0289-P05	CONNECTOR	CONNECTOR	
CN324		VMC0289-P11	CONNECTOR	CN325	VMC0289-P07	CONNECTOR	CONNECTOR	
CN353		VMC0289-S05K	CONNECTOR	C1101	QEK51HM-475	E CAPACITOR	4.7MF 20% 50V	
C1102		QEK51HM-475	E CAPACITOR	C1103	QEK41HM-474	E CAPACITOR	4.7MF 20% 50V	
C1104		QEK51HM-475	E CAPACITOR	C1104	QEK51HM-475	E CAPACITOR	4.7MF 20% 50V	

BLOCK NO. [REDACTED]

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C1105	QCS11HJ-470	C..CAPACITOR	MIX AMP	
C1106	QEKS1HM-475	E..CAPACITOR	MIX AMP	
C1107	QCB8BHK-151Y	C..CAPACITOR	150PF 10% 50V	
C1108	QCB8BHK-151Y	C..CAPACITOR	150PF 10% 50V	
C1201	QEKS1HM-475	E..CAPACITOR	4.7MF 20% 50V	
C1202	QEKS1HM-475	E..CAPACITOR	4.7MF 20% 50V	
C1203	QEK41HM-474	E..CAPACITOR	4.7MF 20% 50V	
C1204	QEKS1HM-475	E..CAPACITOR	4.7MF 20% 50V	
C1205	QCS11HJ-470	C..CAPACITOR	MIX AMP	
C1206	QEKS1HM-475	E..CAPACITOR	MIX AMP	
C1207	QCB8BHK-151Y	C..CAPACITOR	150PF 10% 50V	
C1208	QCB8BHK-151Y	C..CAPACITOR	150PF 10% 50V	
C1301	QEKS1CM-107	E..CAPACITOR	RIPPLE FILTER	
C1302	QCVB1CM-103Y	C..CAPACITOR	.010MF 20% 16V	
C1303	QEKA1CM-476	E..CAPACITOR	.010MF 20% 16V	
C1304	QEKA1CM-226	E..CAPACITOR	.010MF 20% 16V	
C1305	QCB8BHK-151Y	C..CAPACITOR	150PF 10% 50V	
C1306	QCVB1CM-103Y	C..CAPACITOR	.010MF 20% 16V	
C1307	QEKA1CM-476	E..CAPACITOR	.010MF 20% 16V	
C1308	QEKA1CM-226	E..CAPACITOR	.010MF 20% 16V	
C1309	QCVB1CM-103Y	C..CAPACITOR	MIX AMP	
C1310	QEKA1CM-226	E..CAPACITOR	MIX AMP	
C1311	QCVB1CM-103Y	C..CAPACITOR	.010MF 20% 16V	
C1312	QFV41HJ-1047M	FILM CAPACITOR	.10MF 5% 50V	
A13901	QEEM1EM-688	E..CAPACITOR	.6800MF 20% 25V	
C1902	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 25V	
C1903	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C1904	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C1905	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C1906	QCBB1HK-102Y	C..CAPACITOR	SW10V	
C1908	QCVB1CM-103Y	C..CAPACITOR	SW10V	
C1909	QEKS1CM-107	E..CAPACITOR	SW10V	
C1910	QFV41HJ-1047M	FILM CAPACITOR	US5V	
C1911	QEKA1CM-106	E..CAPACITOR	US5V	
C22701	QEKA1CM-476	E..CAPACITOR	4.7MF 20% 16V	
C2702	QCBB1HK-151Y	C..CAPACITOR	470PF 10% 50V	
C2703	QCBB1HK-151Y	C..CAPACITOR	150PF 10% 50V	
C2704	QCBB1HK-151Y	C..CAPACITOR	150PF 10% 50V	
C2705	QCVB1CM-103Y	C..CAPACITOR	SOL DRIVER	
C2706	QCBB1HK-151Y	C..CAPACITOR	150PF 10% 50V	
D121	ISS133	SI DIODE	ALC	
D122	ISS133	SI DIODE	ALC	
D123	ISS133	SI DIODE	ALC	
D124	ISS133	SI DIODE	ALC	
D352	ISS133	SI DIODE	ZENER DIODE	
D353	ISS133	SI DIODE	ZENER DIODE	
D354	ISS133	SI DIODE	ZENER DIODE	
D1301	MT25-6JB	SI DIODE	ZENER DIODE	
D1302	ISS133	SI DIODE	ZENER DIODE	
D1303	MT28-2JB	SI DIODE	ZENER DIODE	
A13901	DSSB20-4101	SI DIODE	ZENER DIODE	
D1902	ISS133	SI DIODE	ZENER DIODE	
D1903	MT210JAT-77	SI DIODE	ZENER DIODE	
D1904	MT26-8JB	SI DIODE	ZENER DIODE	

BLOCK NO. [REDACTED]

REF.	PARTS NO.	PARTS NAME	SUFFIX	REMARKS	BLOCK NO. [REDACTED]
D2701	MT25-6JB	ZENER DIODE		SOL DRIVER	
D2702	ISS133	SI DIODE			
D2703	ISS133	SI DIODE			
D2801	SLR-325VUC131	LED		REC FWD	
D2802	SLR-325MCT31	LED		REC FWD	
A1311	BA3121	IC			
IC132	BA3121	IC			
IC133	BA15218	IC		MIX AMP	
A13191	UPC78L05J-T	IC		USSV	
IC271	MC14094BCP	IC		PORT EXPANDER1	
IC272	MC14094BCP	IC		PORT EXPANDER2	
IC321	HA12134A	IC		DOLBY AMP	
IC322	LA3220	IC		REC AMP	
IC331	UPC1228HA	IC		PB AMP	
IC332	UPC1330HA	IC		R/P SW	
J1301	EMN007V-021A2	PIN JACK		AUX/LINE OUT	
A1301	QMCB001-020H	AC SOCKET			
L121	VGP0001-562Z	INDUCTOR			
L151	VGP0001-103S	INDUCTOR		REC AMP	
L221	VGP0001-542Z	INDUCTOR		BIAS OSC	
L251	VGP0001-103S	INDUCTOR			
L351	VGP0028-1001	INDUCTOR			
A1304	VGP0018-4R7	INDUCTOR			
L1303	VGP0018-4R7	INDUCTOR			
L1304	VGP0018-4R7	INDUCTOR			
L1305	VGP0018-4R7	INDUCTOR			
PP1	VMP0015-011	STYLE PIN			
L1301	VGP0018-4R7	INDUCTOR			
L1302	VGP0018-4R7	INDUCTOR			
L1303	VGP0018-4R7	INDUCTOR			
L1304	VGP0018-4R7	INDUCTOR			
L1305	VGP0018-4R7	INDUCTOR			
PP	VMP0015-011	STYLE PIN			
Q101	DTC1441SA-T	D..TRANSISTOR		PB AMP	
Q122	2SC2785	D..TRANSISTOR		REC MUTE	
Q123	DTC1441SA-T	D..TRANSISTOR		REC FWD	
Q125	2SC2785	D..TRANSISTOR		PB MUTE	
Q222	2SC2785	D..TRANSISTOR		REC MUTE	
Q223	DTC1441SA-T	D..TRANSISTOR		REC FWD	
Q225	2SC2785	D..TRANSISTOR		PB MUTE	
Q301	2SC2785	TRANSISTOR		MS DET	
Q321	DTA144ES-T	D..TRANSISTOR		PB MUTE	
Q322	DTC1441SA-T	D..TRANSISTOR		ALC CTL	
Q324	DTC1441SA-T	D..TRANSISTOR		BIAS OSC	
Q351	2SC2001(L,K)	TRANSISTOR			
Q352	2SC2001(L,K)	TRANSISTOR			
Q354	2SC2785	TRANSISTOR		BIAS OSC	
Q355	2SC2001(L,K)	TRANSISTOR		BIAS OSC	
Q356	2SC1845	TRANSISTOR		BEAT CUT	
Q357	2SC2785	TRANSISTOR		BEAT CUT	
Q1101	2SD2144S(VW)	TRANSISTOR		LINE OUT MUTE	
Q1102	2SD2144S(VW)	TRANSISTOR		AUX MUTE	
Q1103	2SD2144S(VW)	TRANSISTOR		AUX MUTE	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. <u>011111</u>
Q1104 2SD2144S(VW)	TRANSISTOR	TAPE MUTE			
Q1201 2SD2144S(VW)	TRANSISTOR	LINE OUT MUTE			
Q1202 2SD2144S(VW)	TRANSISTOR	AUX MUTE			
Q1203 2SD2144S(VW)	TRANSISTOR	AUX MUTE			
Q1204 2SD2144S(VW)	TRANSISTOR	TAPE MUTE			
Q1301 2SC2785	TRANSISTOR	LIPPLE FILTER			
Q1302 2SC2785	TRANSISTOR	MUTE DRIVE			
Q1303 DTA144STP	TRANSISTOR	MUTE DRIVE			
Q1304 DTA144WS	D-TRANSISTOR	MUTE DRIVE			
Q1305 DTA144WS	D-TRANSISTOR	MUTE DRIVE			
Q1306 DTA144WS	D-TRANSISTOR	MUTE DRIVE			
Q1307 DTA144WS	D-TRANSISTOR	MUTE DRIVE			
Q1308 DTA144WS	D-TRANSISTOR	MUTE DRIVE			
Q1309 DTC144TSA-T	D-TRANSISTOR	MOT DRIVER			
Q1904 DTA144STP	TRANSISTOR	SOL DRIVER			
Q1905 2SC2785	TRANSISTOR	SOL DRIVER			
Q1906 2SC2785	TRANSISTOR	SOL DRIVER			
Q2701 DTC144NSTP	TRANSISTOR	MS SW			
Q2702 DTC144TSA-T	D-TRANSISTOR	PLAY SW			
Q2703 2SA952(L,K)	TRANSISTOR	MOT DRIVER			
Q2704 DTC144EST-T	D-TRANSISTOR	LED DRIVER			
Q2705 2SB562(C)	TRANSISTOR	CARBON RESISTOR	MS DET		
Q2706 2SC2785	TRANSISTOR	CARBON RESISTOR	MS DET		
Q2707 2SC2785	TRANSISTOR	CARBON RESISTOR	MS DET		
Q2708 2SC2785	TRANSISTOR	CARBON RESISTOR	MS DET		
Q2709 2SC2785	TRANSISTOR	CARBON RESISTOR	MS DET		
R 101 QRD161J-680	CARBON RESISTOR	PB AMP			
R 102 QRD161J-774	CARBON RESISTOR	PB AMP			
R 103 QRD161J-622	CARBON RESISTOR	PB AMP			
R 104 QRD161J-472	CARBON RESISTOR	PB AMP			
R 105 QRD161J-122	CARBON RESISTOR	MOT DRIVER			
R 121 QRD161J-103	CARBON RESISTOR	DOLBY AMP			
R 122 QRD161J-332	CARBON RESISTOR	DOLBY AMP			
R 123 QRD161J-102	CARBON RESISTOR	REC AMP			
R 124 QRD161J-104	CARBON RESISTOR	REC AMP			
R 125 QRD161J-104	CARBON RESISTOR	REC AMP			
R 126 QRD161J-753	CARBON RESISTOR	DOLBY AMP			
R 127 QRD161J-222	CARBON RESISTOR	DOLBY AMP			
R 128 QRD161J-103	CARBON RESISTOR	REC AMP			
R 129 QRD161J-153	CARBON RESISTOR	REC AMP			
R 130 QRD161J-153	CARBON RESISTOR	REC AMP			
R 131 QRD161J-101	CARBON RESISTOR	REC AMP			
R 132 QRD161J-221	CARBON RESISTOR	REC AMP			
R 133 QRD161J-182	CARBON RESISTOR	REC AMP			
R 134 QRD161J-392	CARBON RESISTOR	REC AMP			
R 135 QRD161J-392	CARBON RESISTOR	REC AMP			
R 138 QRD161J-472	CARBON RESISTOR	REC AMP			
R 139 QRD161J-332	CARBON RESISTOR	REC AMP			
R 140 QRD161J-332	CARBON RESISTOR	DOLBY AMP			
R 141 QRD161J-332	CARBON RESISTOR	DOLBY AMP			
R 151 QRD161J-103	CARBON RESISTOR	BIAS OSC			
R 201 QRD161J-680	CARBON RESISTOR	PB AMP			
R 202 QRD161J-274	CARBON RESISTOR	PB AMP			
R 203 QRD161J-622	CARBON RESISTOR	PB AMP			
R 204 QRD161J-472	CARBON RESISTOR	PB AMP			
R 205 QRD161J-122	CARBON RESISTOR	MS DET			

REF.	PARTS NO.	PARTS NAME	SUFFIX	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. <u>011111</u>
Q1104 2SD2144S(VW)	TRANSISTOR	LINE OUT MUTE		R 221 QRD161J-103	CARBON RESISTOR	DOLBY AMP		
Q1201 2SD2144S(VW)	TRANSISTOR	AUX MUTE		R 223 QRD161J-332	CARBON RESISTOR	DOLBY AMP		
Q1202 2SD2144S(VW)	TRANSISTOR	AUX MUTE		R 224 QRD161J-102	CARBON RESISTOR	ALC		
Q1203 2SD2144S(VW)	TRANSISTOR	TAPE MUTE		R 226 QRD161J-104	CARBON RESISTOR	DOLBY AMP		
Q1204 2SD2144S(VW)	TRANSISTOR	TAPE MUTE		R 227 QRD161J-222	CARBON RESISTOR	DOLBY AMP		
Q1301 2SC2785	TRANSISTOR	LIPPLE FILTER		R 228 QRD161J-103	CARBON RESISTOR	REC AMP		
Q1302 2SC2785	TRANSISTOR	MUTE DRIVE		R 229 QRD161J-153	CARBON RESISTOR	REC AMP		
Q1303 DTA144STP	TRANSISTOR	MUTE DRIVE		R 230 QRD161J-153	CARBON RESISTOR	REC AMP		
Q1304 DTA144WS	D-TRANSISTOR	MUTE DRIVE		R 231 QRD161J-101	CARBON RESISTOR	REC AMP		
Q1305 DTA144WS	D-TRANSISTOR	MUTE DRIVE		R 232 QRD161J-221	CARBON RESISTOR	REC AMP		
Q1306 DTA144WS	D-TRANSISTOR	MUTE DRIVE		R 234 QRD161J-182	CARBON RESISTOR	REC AMP		
Q1307 DTA144WS	D-TRANSISTOR	MUTE DRIVE		R 235 QRD161J-392	CARBON RESISTOR	REC AMP		
Q1904 DTA144STP	TRANSISTOR	MOT DRIVER		R 236 QRD161J-472	CARBON RESISTOR	REC AMP		
Q1905 2SC2785	TRANSISTOR	SOL DRIVER		R 239 QRD161J-332	CARBON RESISTOR	REC AMP		
Q1906 2SC2785	TRANSISTOR	SOL DRIVER		R 240 QRD161J-332	CARBON RESISTOR	DOLBY AMP		
Q2701 DTC144NSTP	TRANSISTOR	MS SW		R 241 QRD161J-332	CARBON RESISTOR	DOLBY AMP		
Q2702 DTC144TSA-T	D-TRANSISTOR	PLAY SW		R 251 QRD161J-103	CARBON RESISTOR	BIAS OSC		
Q2703 2SA952(L,K)	TRANSISTOR	MOT DRIVER		R 301 QRD161J-221	CARBON RESISTOR	PB AMP		
Q2704 2SC2785	TRANSISTOR	LED DRIVER		R 302 QRD161J-103	CARBON RESISTOR	R/P SW		
R 101 QRD161J-680	CARBON RESISTOR	SOL DRIVER		R 303 QRD161J-221	CARBON RESISTOR	R/P SW		
R 102 QRD161J-774	CARBON RESISTOR	SOL DRIVER		R 304 QRD161J-103	CARBON RESISTOR	MS DET		
R 103 QRD161J-622	CARBON RESISTOR	SOL DRIVER		R 305 QRD161J-121	CARBON RESISTOR	MS DET		
R 104 QRD161J-472	CARBON RESISTOR	LED DRIVER		R 306 QRD161J-473	CARBON RESISTOR	MS DET		
R 1209 QRD161J-103	CARBON RESISTOR	DOLBY AMP		R 327 QRD161J-221	CARBON RESISTOR	DOLBY AMP		
R 1210 QRD161J-332	CARBON RESISTOR	DOLBY AMP		R 328 QRD161J-475	CARBON RESISTOR	REC AMP		
R 1211 QRD161J-102	CARBON RESISTOR	REC AMP		R 329 QRD161J-103	CARBON RESISTOR	DOLBY AMP		
R 1212 QRD161J-104	CARBON RESISTOR	REC AMP		R 330 QRD161J-183	CARBON RESISTOR	DOLBY AMP		
R 1213 QRD161J-753	CARBON RESISTOR	DOLBY AMP		R 331 QRD161J-103	CARBON RESISTOR	REC AMP		
R 1214 QRD161J-222	CARBON RESISTOR	REC AMP		R 332 QRD161J-223	CARBON RESISTOR	REC AMP		
R 1215 QRD161J-103	CARBON RESISTOR	REC AMP		R 333 QRD161J-475	CARBON RESISTOR	REC AMP		
R 1216 QRD161J-104	CARBON RESISTOR	REC AMP		R 334 QRD161J-101	CARBON RESISTOR	REC AMP		
R 1217 QRD161J-753	CARBON RESISTOR	DOLBY AMP		R 335 QRD161J-273	CARBON RESISTOR	REC AMP		
R 1218 QRD161J-222	CARBON RESISTOR	REC AMP		R 336 QRD161J-3R3	CARBON RESISTOR	REC AMP		
R 1219 QRD161J-103	CARBON RESISTOR	REC AMP		R 337 QRD161J-181	CARBON RESISTOR	BIAS OSC		
R 1220 QRD161J-153	CARBON RESISTOR	REC AMP		R 338 QRD161J-221	CARBON RESISTOR	BIAS OSC		
R 1221 QRD161J-153	CARBON RESISTOR	REC AMP		R 339 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 1222 QRD161J-101	CARBON RESISTOR	REC AMP		R 340 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 1223 QRD161J-221	CARBON RESISTOR	REC AMP		R 341 QRD161J-223	CARBON RESISTOR	BIAS OSC		
R 1224 QRD161J-182	CARBON RESISTOR	REC AMP		R 342 QRD161J-471	CARBON RESISTOR	BIAS OSC		
R 1225 QRD161J-392	CARBON RESISTOR	REC AMP		R 343 QRD161J-223	CARBON RESISTOR	BIAS OSC		
R 1226 QRD161J-392	CARBON RESISTOR	REC AMP		R 344 QRD161J-3R3	CARBON RESISTOR	BIAS OSC		
R 1227 QRD161J-472	CARBON RESISTOR	REC AMP		R 345 QRD161J-474	CARBON RESISTOR	BIAS OSC		
R 1228 QRD161J-332	CARBON RESISTOR	REC AMP		R 346 QRD161J-474	CARBON RESISTOR	BIAS OSC		
R 1229 QRD161J-332	CARBON RESISTOR	REC AMP		R 347 QRD161J-221	CARBON RESISTOR	BIAS OSC		
R 1230 QRD161J-103	CARBON RESISTOR	BIAS OSC		R 348 QRD161J-221	CARBON RESISTOR	BIAS OSC		
R 1231 QRD161J-103	CARBON RESISTOR	REC AMP		R 349 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 1232 QRD161J-182	CARBON RESISTOR	REC AMP		R 350 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 1233 QRD161J-392	CARBON RESISTOR	REC AMP		R 351 QRD161J-223	CARBON RESISTOR	BIAS OSC		
R 1234 QRD161J-392	CARBON RESISTOR	REC AMP		R 352 QRD161J-273	CARBON RESISTOR	BIAS OSC		
R 1235 QRD161J-392	CARBON RESISTOR	REC AMP		R 353 QRD161J-273	CARBON RESISTOR	BIAS OSC		
R 1236 QRD161J-472	CARBON RESISTOR	REC AMP		R 354 QRD161J-3R3	CARBON RESISTOR	BIAS OSC		
R 1237 QRD161J-332	CARBON RESISTOR	REC AMP		R 355 QRD161J-3R3	CARBON RESISTOR	BIAS OSC		
R 1238 QRD161J-332	CARBON RESISTOR	REC AMP		R 356 QRD161J-181	CARBON RESISTOR	BIAS OSC		
R 1239 QRD161J-182	CARBON RESISTOR	REC AMP		R 357 QRD161J-221	CARBON RESISTOR	BIAS OSC		
R 1240 QRD161J-332	CARBON RESISTOR	REC AMP		R 358 QRD161J-221	CARBON RESISTOR	BIAS OSC		
R 1411 QRD161J-332	CARBON RESISTOR	DOLBY AMP		R 359 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 1511 QRD161J-103	CARBON RESISTOR	BIAS OSC		R 360 QRD161J-472	CARBON RESISTOR	BIAS OSC		
R 201 QRD161J-680	CARBON RESISTOR	PB AMP		R 361 QRD161J-223	CARBON RESISTOR	BEAT CUT		
R 202 QRD161J-274	CARBON RESISTOR	PB AMP		R 362 QRD161J-471	CARBON RESISTOR	BEAT CUT		
R 203 QRD161J-622	CARBON RESISTOR	PB AMP		R 363 QRD161J-223	CARBON RESISTOR	BEAT CUT		
R 204 QRD161J-472	CARBON RESISTOR	PB AMP		R 364 QRD161J-3R3	CARBON RESISTOR	BIAS OSC		
R 205 QRD161J-122	CARBON RESISTOR	MS DET		R 365 QRD161J-474	CARBON RESISTOR	T-P		

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFF X	PARTS NO.	PARTS NAME	REMARKS	SUFF X
R1104	GRD161J-183	CARBON RESISTOR MIX AMP			R2707	GRD161J-223	CARBON RESISTOR	LED DRIVER
R1105	GRD161J-183	CARBON RESISTOR AUX MUTE			R2708	GRD161J-223	CARBON RESISTOR	LED DRIVER
R1106	GRD161J-183	CARBON RESISTOR AUX MUTE			R2709	GRD161J-223	CARBON RESISTOR	MOT DRIVER
R1107	GRD161J-472	CARBON RESISTOR AUX MUTE			R2710	GRD161J-151	CARBON RESISTOR	SOL DRIVER
R1108	GRD161J-472	CARBON RESISTOR AUX MUTE			R2711	GRD167J-562	CARBON RESISTOR	SOL DRIVER
R1109	GRD167J-332	CARBON RESISTOR TAPE MUTE			R2712	GRD161J-123	CARBON RESISTOR	MOT SPEED ADJ
R1110	GRD161J-472	CARBON RESISTOR TAPE MUTE			R2713	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W
R1111	GRD161J-102	CARBON RESISTOR LINE OUT MUTE			R2714	GRD167J-532	CARBON RESISTOR	3.3K 5% 1/6W
R1112	GRD161J-392	CARBON RESISTOR LINE OUT MUTE			R2715	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W
R1113	GRD161J-472	CARBON RESISTOR LINE OUT MUTE			R2716	GRD167J-682	CARBON RESISTOR	SOL DRIVER
R1201	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			R2717	GRD161J-221	CARBON RESISTOR	220 5% 1/6W
R1202	GRD161J-563	CARBON RESISTOR MIX AMP			R2718	GRD161J-221	CARBON RESISTOR	220 5% 1/6W
R1203	GRD161J-203	CARBON RESISTOR MIX AMP			R2801	GRD161J-821	CARBON RESISTOR	REC LED
R1204	GRD161J-183	CARBON RESISTOR MIX AMP			R2802	GRD161J-821	CARBON RESISTOR	FWD LED
R1205	GRD161J-183	CARBON RESISTOR AUX MUTE			R2803	GRD161J-821	CARBON RESISTOR	REV LED
R1206	GRD161J-183	CARBON RESISTOR AUX MUTE			R2804	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R1207	GRD161J-472	CARBON RESISTOR AUX MUTE			R2805	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R1208	GRD161J-472	CARBON RESISTOR AUX MUTE			R2806	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W
R1209	GRD167J-332	CARBON RESISTOR TAPE MUTE			R2807	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W
R1210	GRD161J-472	CARBON RESISTOR TAPE MUTE			R2808	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
R1211	GRD161J-102	CARBON RESISTOR LINE OUT MUTE			R2809	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W
R1212	GRD161J-392	CARBON RESISTOR LINE OUT MUTE			R2810	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W
R1213	GRD161J-472	CARBON RESISTOR LINE OUT MUTE			R2811	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W
R1301	GRD161J-471	CARBON RESISTOR RIPPLE FILTER			R2812	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W
R1302	GRD161J-100	CARBON RESISTOR 10 5% 1/6W			S2801	QSQ4H11-V122	TACT SWITCH	REV MODE
R1303	GRD161J-100	CARBON RESISTOR 10 5% 1/6W			S2802	QSQ4H11-V122	TACT SWITCH	REV PLAY
R1304	GRD161J-100	CARBON RESISTOR MIX AMP			S2803	QSQ4H11-V122	TACT SWITCH	STOP
R1305	GRD161J-473	CARBON RESISTOR MIX AMP			S2804	QSQ4H11-V122	TACT SWITCH	FWD PLAY
R1306	GRD161J-473	CARBON RESISTOR MIX AMP			S2805	QSQ4H11-V122	TACT SWITCH	SYC REC
R1307	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			S2806	QSQ4H11-V122	TACT SWITCH	REC PAUSE
R1308	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			S2807	QSQ4H11-V122	TACT SWITCH	REV
R1309	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			S2808	QSQ4H11-V122	TACT SWITCH	DOLBY
R1310	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			S2809	QSQ4H11-V122	TACT SWITCH	B.0SC FREQ ADJ
R1311	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			T 351	VQH1008-055	OSC COIL(BIAS)	
R1901	GRD161J-5R3	CARBON RESISTOR SW10V			VR101	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB SENS ADJ
R1902	GRD161J-5R3	CARBON RESISTOR SW10V			VR102	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1903	GRD161J-5R3	CARBON RESISTOR SW10V			VR103	QVPA603-104A	SEMI-V. RESISTOR	PB OUT LEVEL AJ
R1904	GRD161J-471	CARBON RESISTOR SW10V			VR201	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB SENS ADJ
R1905	GRD161J-482	CARBON RESISTOR SW10V			VR202	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1906	GRD161J-472	CARBON RESISTOR SW10V			VR203	QVPA603-104A	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1907	GRD167J-332	CARBON RESISTOR SW10V			VR271	QVPA603-13M	SEMI-V. RESISTOR	MOT SPEED ADJ
R1908	GRD161J-222	CARBON RESISTOR SW10V			Z1901	VM20123-001Z	FUSE CLIP	FOR F1901
R1910	GRZ0077-151X	F-RESISTOR SW10V			Z1902	VM20123-001Z	FUSE CLIP	FOR F1902
R1912	GRD161J-471	CARBON RESISTOR SW10V						
R1913	GRD161J-472	CARBON RESISTOR SW10V						
R1914	GRD161J-472	CARBON RESISTOR SW10V						
R1915	GRD161J-472	FUSE RESISTOR US5V						
R1918	GRZ0077-4R7X	CARBON RESISTOR SW10V						
R1919	GRD161J-472	CARBON RESISTOR SW10V						
R2701	GRD161J-222	CARBON RESISTOR SW10V						
R2702	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W						
R2703	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W						
R2704	GRD161J-473	CARBON RESISTOR MS SW						
R2705	GRD161J-473	CARBON RESISTOR PLAY SW						
R2706	GRD161J-223	CARBON RESISTOR LED DRIVER						

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFF X	PARTS NO.	PARTS NAME	REMARKS	SUFF X
R1104	GRD161J-183	CARBON RESISTOR MIX AMP			R2707	GRD161J-223	CARBON RESISTOR	LED DRIVER
R1105	GRD161J-183	CARBON RESISTOR AUX MUTE			R2708	GRD161J-223	CARBON RESISTOR	LED DRIVER
R1106	GRD161J-183	CARBON RESISTOR AUX MUTE			R2709	GRD161J-223	CARBON RESISTOR	MOT DRIVER
R1107	GRD161J-472	CARBON RESISTOR AUX MUTE			R2710	GRD161J-151	CARBON RESISTOR	SOL DRIVER
R1108	GRD161J-472	CARBON RESISTOR AUX MUTE			R2711	GRD167J-562	CARBON RESISTOR	SOL DRIVER
R1109	GRD167J-332	CARBON RESISTOR TAPE MUTE			R2712	GRD161J-123	CARBON RESISTOR	MOT SPEED ADJ
R1110	GRD161J-472	CARBON RESISTOR TAPE MUTE			R2713	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W
R1111	GRD161J-102	CARBON RESISTOR LINE OUT MUTE			R2714	GRD167J-532	CARBON RESISTOR	3.3K 5% 1/6W
R1112	GRD161J-392	CARBON RESISTOR LINE OUT MUTE			R2715	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W
R1113	GRD161J-472	CARBON RESISTOR LINE OUT MUTE			R2716	GRD167J-682	CARBON RESISTOR	SOL DRIVER
R1201	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			R2717	GRD161J-221	CARBON RESISTOR	220 5% 1/6W
R1202	GRD161J-563	CARBON RESISTOR MIX AMP			R2718	GRD161J-221	CARBON RESISTOR	220 5% 1/6W
R1203	GRD161J-203	CARBON RESISTOR MIX AMP			R2801	GRD161J-821	CARBON RESISTOR	REC LED
R1204	GRD161J-183	CARBON RESISTOR MIX AMP			R2802	GRD161J-821	CARBON RESISTOR	FWD LED
R1205	GRD161J-183	CARBON RESISTOR AUX MUTE			R2803	GRD161J-821	CARBON RESISTOR	REV LED
R1206	GRD161J-183	CARBON RESISTOR AUX MUTE			R2804	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R1207	GRD161J-472	CARBON RESISTOR AUX MUTE			R2805	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R1208	GRD161J-472	CARBON RESISTOR AUX MUTE			R2806	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W
R1209	GRD167J-332	CARBON RESISTOR TAPE MUTE			R2807	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W
R1210	GRD161J-472	CARBON RESISTOR TAPE MUTE			R2808	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
R1211	GRD161J-102	CARBON RESISTOR LINE OUT MUTE			R2809	GRD167J-272	CARBON RESISTOR	2.7K 5% 1/6W
R1212	GRD161J-392	CARBON RESISTOR LINE OUT MUTE			R2810	GRD161J-392	CARBON RESISTOR	CARBON RESISTOR
R1213	GRD161J-472	CARBON RESISTOR LINE OUT MUTE			R2811	GRD167J-562	CARBON RESISTOR	REC LED
R1301	GRD161J-471	CARBON RESISTOR RIPPLE FILTER			R2812	GRD161J-103	CARBON RESISTOR	FWD LED
R1302	GRD161J-100	CARBON RESISTOR 10 5% 1/6W			S2801	QSQ4H11-V122	TACT SWITCH	REV MODE
R1303	GRD161J-100	CARBON RESISTOR 10 5% 1/6W			S2802	QSQ4H11-V122	TACT SWITCH	REV PLAY
R1304	GRD161J-100	CARBON RESISTOR MIX AMP			S2803	QSQ4H11-V122	TACT SWITCH	STOP
R1305	GRD161J-473	CARBON RESISTOR MIX AMP			S2804	QSQ4H11-V122	TACT SWITCH	FWD PLAY
R1306	GRD161J-473	CARBON RESISTOR MIX AMP			S2805	QSQ4H11-V122	TACT SWITCH	SYC REC
R1307	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			S2806	QSQ4H11-V122	TACT SWITCH	REC PAUSE
R1308	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			S2807	QSQ4H11-V122	TACT SWITCH	REV
R1309	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			S2808	QSQ4H11-V122	TACT SWITCH	DOLBY
R1310	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			S2809	QSQ4H11-V122	TACT SWITCH	B.0SC FREQ ADJ
R1311	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			T 351	VQH1008-055	OSC COIL(BIAS)	
R1901	GRD161J-5R3	CARBON RESISTOR SW10V			VR101	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB SENS ADJ
R1902	GRD161J-5R3	CARBON RESISTOR SW10V			VR102	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1903	GRD161J-5R3	CARBON RESISTOR SW10V			VR103	QVPA603-104A	SEMI-V. RESISTOR	PB OUT LEVEL AJ
R1904	GRD161J-471	CARBON RESISTOR SW10V			VR201	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB SENS ADJ
R1905	GRD161J-482	CARBON RESISTOR SW10V			VR202	QVPA603-502AZM	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1906	GRD161J-472	CARBON RESISTOR SW10V			VR203	QVPA603-104A	SEMI-V. RESISTOR	REC/PB SENS ADJ
R1907	GRD167J-332	CARBON RESISTOR SW10V			VR271	QVPA603-13M	SEMI-V. RESISTOR	REC/PB FREQ ADJ
R1908	GRD161J-222	CARBON RESISTOR SW10V			Z1901	VM20123-001Z	FUSE CLIP	MOT SPEED ADJ
R1910	GRZ0077-151X	F-RESISTOR SW10V			Z1902	VM20123-001Z	FUSE CLIP	FOR F1902
R1912	GRD161J-471	CARBON RESISTOR SW10V						
R1913	GRD161J-472	CARBON RESISTOR SW10V						
R1914	GRD161J-472	CARBON RESISTOR SW10V						
R1915	GRD161J-472	FUSE RESISTOR US5V						
R1918	GRZ0077-4R7X	CARBON RESISTOR SW10V						
R1919	GRD161J-472	CARBON RESISTOR SW10V						
R2701	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W						
R2702	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W						
R2703	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W						
R2704	GRD161J-473	CARBON RESISTOR MS SW						
R2705	GRD161J-473	CARBON RESISTOR PLAY SW						
R2706	GRD161J-223	CARBON RESISTOR LED DRIVER						

■ Tuner & Operation Switch Board

BLOCK NO. 02111111

BLOCK NO. 02111111

A	REF.	PARTS NO.	PARTS NAME	BLOCK	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	BLOCK	REMARKS	SUFFIX	
C	1	NCB21HK-223AY	C CAPACITOR	-022MF 10% 50V			CF	3	VCF1222-115Z	CERAMIC FILTER			
C	2	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			CF	4	CMU2-456B05	CERA LOCK			
C	3	NCB21HK-473AY	C CAPACITOR	-047MF 10% 25V			CN	1	VMC0289-S10K	CONNECTOR			
C	4	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			CN301	VMC0288-S06	CONNECTOR				
C	5	GEK41HM-106	E. CAPACITOR	-10MF 20% 16V			CN308	VMC0289-S06K	CONNECTOR				
C	6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			CN711	EMV7171-119R	CONNECTOR				
C	8	NCS21HK-150AY	C. CAPACITOR	15PF 5% 50V			CN712	EMV7171-121R	CONNECTOR				
C	9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			CN713	VMC0163-R10	CONNECTOR				
C	12	NCT21CH-150AY	C CAPACITOR	15PF +50:-10% 1			CN731	VMC0077-R02	CONNECTOR				
C	14	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			C3101	QFV41HK-4-74	FILM CAPACITOR				
C	15	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			C3102	QCB11HK-561Y	C. CAPACITOR				
C	16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			C3103	QTE1V06-104Z	E. CAPACITOR				
C	18	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			C3104	QCC11EM-104V	C. CAPACITOR				
C	19	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			C3105	QCC11EM-104V	C. CAPACITOR				
C	21	NCB21HK-473AY	C CAPACITOR	-047MF 10% 25V			C3106	QCFB1HK-104Y	C. CAPACITOR				
C	30	GEK41CM-476	E. CAPACITOR	47MF 20% 16V			C3107	QFV41HK-4-74	FILM CAPACITOR				
C	31	NCS21HK-390AY	C CAPACITOR	39PF 5% 50V			C3201	QFV41HK-4-74	C. CAPACITOR				
C	32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			C3202	QCB11HK-561Y	C. CAPACITOR				
C	33	QEK61AM-107Z	C CAPACITOR	1000PF 20% 10V			C3203	QTE1V06-106Z	E. CAPACITOR				
C	34	NCS21HK-150AY	C CAPACITOR	15PF 5% 50V			C3204	QCC11EM-104V	C. CAPACITOR				
C	35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			C3205	QCC11EM-104V	C. CAPACITOR				
C	36	QEK41CM-106	E. CAPACITOR	10MF 20% 16V			C3206	QCFB1HK-104Y	C. CAPACITOR				
C	37	NCS21HK-473AY	C CAPACITOR	-047MF 10% 25V			C3207	QCB11HK-104Y	C. CAPACITOR				
C	39	NCB21HK-473AY	C CAPACITOR	-047MF 10% 25V			C3301	QET41CM-227	E. CAPACITOR				
C	40	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			C3302	QEK41CM-106	E. CAPACITOR				
C	41	QEK41HM-104	E. CAPACITOR	-10MF 20% 50V			C3303	QFV71HK-394ZM	FILM CAPACITOR				
C	42	QEK41HM-474	E. CAPACITOR	-47MF 20% 50V			C3304	QCC11EM-104V	C. CAPACITOR				
C	43	QEK61HM-335Z	E. CAPACITOR	3.3MF 20% 50V			C3701	QEK41CM-476	E. CAPACITOR				
C	44	NCS21HK-221AY	C CAPACITOR	220PF 5% 50V			C3702	QCVB1CM-103Y	C. CAPACITOR				
C	45	QEK41HM-106	E. CAPACITOR	10MF 20% 16V			C3703	QCVB1CM-103Y	C. CAPACITOR				
C	46	NCB21HK-223AY	C CAPACITOR	-022MF 10% 50V			D	1	15S133	SI DIODE			
C	47	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			D	2	15S133	SI DIODE			
C	49	NCB21HK-183AY	C CAPACITOR	-018MF 10% 50V			D	3	15S133	SI DIODE			
C	50	NCB21HK-183AY	C CAPACITOR	-018MF 10% 50V			D	4	15S133	SI DIODE			
C	51	QEK41HM-105	E. CAPACITOR	1.0MF 20% 50V			D3301	15S133	SI DIODE				
C	52	QEK61HM-105	E. CAPACITOR	1.0MF 20% 50V			D3701	SLR-325VCT31	LED				
C	53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V			D3702	SLR-325VCT31	SI DIODE				
C	55	NCS21HK-120AY	C CAPACITOR	12PF 5% 50V			D3703	15S133	SI DIODE				
C	60	QEK61AM-107Z	E. CAPACITOR	100MF 20% 10V			IC	1	TA2057N	IC			
C	61	NCS21HK-120AY	C CAPACITOR	12PF 5% 50V			IC	2	LC72136N	IC			
C	62	NCS21HK-120AY	C CAPACITOR	-047MF 10% 50V			A	IC21	TA8233H	IC			
C	63	NCB21HK-473AY	C CAPACITOR	-047MF 10% 25V			IC711	SBX1971-52	IC				
C	65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			J	1	EMB41VY-302K	ANT TERMINAL			
C	66	NCS21HK-151AY	C CAPACITOR	150PF 5% 50V			A	J3301	VCV7003-001	ROTARY ENCODER			
C	67	NCS21HK-151AY	C CAPACITOR	150PF 5% 50V			J3702	GP132T	OPTICAL JACK				
C	68	NCS21HK-101AY	C CAPACITOR	100PF 5% 50V			K3301	VQ20048-009	INDUCTOR				
C	69	QEK41HM-225	E. CAPACITOR	2.2MF 20% 50V			L	1	VQZ0098-102	COIL BLOCK			
C	70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V			L	4	VQP0018-221	INDUCTOR			
C	71	QEK61HM-335Z	E. CAPACITOR	3.3MF 20% 50V			L	10	VQZ0069-002	TRAP COIL			
C	72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			L	11	VQP0018-2R7	INDUCTOR			
C	91	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			LF101	VQZ104-003	INDUCTOR				
C	92	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V			LF201	VQZ104-003	INDUCTOR				
C	93	NCB21HK-103AY	C CAPACITOR	F M IF			P	1	VMZ0015-011	STYLE PIN			
CF	1	VCF2M3B-104	CERAMIC FILTER	F M IF			P	2	VMZ0015-011	STYLE PIN			
CF	2	VCF2S3B-102	C FILTER	F M IF									

BLOCK NO. [2] [1] [1]				BLOCK NO. [2] [1] [1]			
REF.	PARTS NO.	PARTS NAME	REMARKS	REF.	PARTS NO.	PARTS NAME	REMARKS
SUFFIX				SUFFIX			
P1711	QLL0011-001	LAMP		R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W
P1712	QLL0011-001	LAMP		R3101	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
Q 1	2SC2668(0)	TRANSISTOR		R3102	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
Q 2	DTA114YKA-X	TRANSISTOR		R3103	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
Q 3	KTC3199(GL)-T	TRANSISTOR		R3104	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W
Q 4	KTC3199(GL)-T	TRANSISTOR		R3105	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W
Q 5	DTA114YKA-X	TRANSISTOR		R3106	QRD167J-417	CARBON RESISTOR	2.2 5% 1/6W
Q 6	DTA114YKA-X	TRANSISTOR		R3107	QRD161J-331	CARBON RESISTOR	2.2K 5% 1/6W
Q 7	2SA1037K(R)	TRANSISTOR		R3201	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
Q 8	2SA1037K(R)	TRANSISTOR		R3202	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
Q3101	2SD1144S(CW)	TRANSISTOR		R3203	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
Q3201	2SD1144S(CW)	TRANSISTOR		R3204	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W
Q3303	DTA114TS	D. TRANSISTOR		R3205	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W
R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	R3206	QRD167J-4R7	CARBON RESISTOR	2.2 5% 1/6W
R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	R3207	QRD161J-331	CARBON RESISTOR	2.2K 5% 1/6W
R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	R3301	QRD161J-224	CARBON RESISTOR	2.2K 5% 1/6W
R 10	NRSA02J-155NY	MG RESISTOR	1.5K 5% 1/10W	R3302	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 12	NRSA02J-105NY	MG RESISTOR	1.0K 5% 1/10W	R3701	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	R3702	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	R3703	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W
R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	R3704	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W
R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	R3705	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	R3706	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W
R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	R3707	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W
R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	R3708	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W
R 24	NRSA02J-472NY	MG RESISTOR	270 5% 1/10W	R3709	QRD161J-103	CARBON RESISTOR	1.0K 5% 1/6W
R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	R3710	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	R3711	QRD161J-561	CARBON RESISTOR	560 5% 1/6W
R 27	NRSA02J-225NY	MG RESISTOR	22K 5% 1/10W	R3712	QRD161J-271	CARBON RESISTOR	270 5% 1/6W
R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	R3713	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	R3714	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	R3721	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	R3722	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W
R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	S3701	QSQ4H11-V122	TACT SWITCH	
R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	S3702	QSQ4H11-V122	TACT SWITCH	
R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	S3703	QSQ4H11-V122	TACT SWITCH	
R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	S3704	QSQ4H11-V122	TACT SWITCH	
R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	S3705	QSQ4H11-V122	TACT SWITCH	
R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	S3706	QSQ4H11-V122	TACT SWITCH	
R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	S3707	QSQ4H11-V122	TACT SWITCH	
R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	S3708	QSQ4H11-V122	TACT SWITCH	
R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	S3709	QSQ4H11-V122	TACT SWITCH	
R 46	NRSA02J-473NY	MG RESISTOR	4.7K 5% 1/10W	S3721	VSH153-002	SWITCH	
R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	S3722	VSH153-002	SWITCH	
R 54	NRSA02J-182NY	MG RESISTOR	4.7K 5% 1/10W	T 1	VQT7A21-113	IFT	
R 55	NRSA02J-332NY	MG RESISTOR	1.8K 5% 1/10W	TU 1	VAF2S13-001	FRONT END	
R 56	NRSA02J-102NY	MG RESISTOR	3.3K 5% 1/10W	X 1	VCX5044-001	CRYSTAL	
R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W				
R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W				
R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W				
R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W				
R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W				
R 68	NRSA02J-223NY	MG RESISTOR	2.2K 5% 1/10W				
R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W				
R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W				

System CPU Board

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 03111111
CN302	VMC0288-P06	CONNECTOR			
CN303	VMC0163-R15	CONNECTOR			
CN304	VMC0163-R07	CONNECTOR			
CN305	VMC0289-P10	CONNECTOR			
CN306	VMC0163-008	CONNECTOR			
A	CN307 VMC0289-P06	CONNECTOR			
CN307	EMV7141-019M	F. WIRE SKT			
CN308	EMV7171-119	CONNECTOR			
CN309	EMV7171-121	CONNECTOR			
CN310	VMC0163-10	CONNECTOR			
CN310	VMC0163-R11	CONNECTOR			
CN310	VMC0075-004	CONNECTOR			
CN310	VMC0163-008	CONNECTOR			
CN310	VMC0163-R15	CONNECTOR			
C7001	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7002	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V		
C7003	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7004	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7005	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7006	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7007	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		
C7008	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7009	QCS11HJ-470	C. CAPACITOR	47PF 5% 50V		
C7010	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V		
C7011	QCS11HJ-330	C. CAPACITOR	33PF 5% 50V		
C7012	QCS11HJ-470	C. CAPACITOR	47PF 5% 50V		
C7013	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V		
C7014	QCS11HJ-102Y	C. CAPACITOR	1000PF 10% 50V		
C7015	QEKA1AM-107ZM	E. CAPACITOR	100MF 20% 10V		
C7016	QEKA1AM-107ZM	E. CAPACITOR	100MF 20% 10V		
C7017	QEKA1HM-105	E. CAPACITOR	1.0MF 20% 10V		
C7018	QEKA1CM-106	E. CAPACITOR	10MF 20% 16V		
C7019	QEIN0JM-228Z	E. CAPACITOR	220MF 20% 16V		
C7020	QEKS1CM-107	E. CAPACITOR	100MF 20% 16V		
C7021	QEKA1CM-106	E. CAPACITOR	10MF 20% 16V		
C7022	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7023	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7024	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7025	QCVB1CM-103Y	C. CAPACITOR	•010MF 20% 16V		
C7026	QCAB1CM-332Y	C. CAPACITOR	3300PF 20% 16V		
C7103	QE1H06-475Z	E. CAPACITOR	22PF 5% 50V		
C7104	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V		
C7105	QCS11HJ-330	C. CAPACITOR	FTZ		
C7106	QE1H06-475Z	E. CAPACITOR			
C7107	QFV1HJ-332ZM	FILM CAPACITOR	•33MF 5% 50V		
C7108	QFV1HJ-333	FILM CAPACITOR	•033MF 5% 50V		
C7109	QFV1HJ-333	FILM CAPACITOR	•033MF 5% 50V		
C7110	QFV1HJ-333	FILM CAPACITOR	•010MF 20% 16V		
C7111	QE1H06-106Z	E. CAPACITOR	3.3MF 20% 50V		
C7112	QEKA1HM-332ZM	E. CAPACITOR	150PF 10% 50V		
C7113	QCBB1HK-151Y	C. CAPACITOR	150PF 20% 10V		
C7114	QEKA1AM-227ZM	E. CAPACITOR	220MF 20% 10V		
C7115	QCVB1CM-103Y	C. CAPACITOR	FTZ		
C7116	QFV1HJ-474	FILM CAPACITOR	•47MF 5% 50V		

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 03111111
C7117	QCS11HJ-680	C. CAPACITOR	68PF 5% 50V		
C7118	QCBB1HK-101Y	C. CAPACITOR	FTZ		
C7119	QE1IC06-226Z	E. CAP. SILMIC			
C7120	QFV1HJ-223	FILM CAPACITOR	FTZ		
C7122	QEKA1HM-105	E. CAPACITOR	•022MF 5% 50V		
C7123	QFV1HJ-154	FILM CAPACITOR	1.0MF 20% 50V		
C7124	QE1H15-475Z	E. CAPACITOR	•15MF 5% 50V		
C7125	QFN41HJ-222	M. CAPACITOR	2200PF 5% 50V		
C7126	QCBB1HK-151Y	C. CAPACITOR	FTZ		
C7201	QCXB1CM-332Y	C. CAPACITOR	1200PF 20% 16V		
C7202	QCXB1CM-332Y	C. CAPACITOR	13000PF 20% 16V		
C7203	QE1H06-475Z	E. CAPACITOR	22PF 5% 50V		
C7204	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V		
C7205	QCVB1CM-330	C. CAPACITOR	FTZ		
C7206	QTE1H06-475Z	E. CAPACITOR	33MF 5% 50V		
C7207	QFV1HJ-334ZM	FILM CAPACITOR	•33MF 5% 50V		
C7208	QFV1HJ-333	FILM CAPACITOR	•033MF 5% 50V		
C7209	QFV1HJ-333	FILM CAPACITOR	•010MF 20% 16V		
C7210	QCVB1CM-103Y	C. CAPACITOR			
C7211	QTE1V06-106Z	E. CAPACITOR	3.3MF 20% 50V		
C7212	QE1H15-475Z	E. CAPACITOR	150PF 10% 50V		
C7213	QCBB1HK-151Y	C. CAPACITOR	150PF 20% 10V		
C7214	QE61AM-227Z	E. CAPACITOR	220MF 20% 10V		
C7215	QCVB1CM-103Y	C. CAPACITOR	FTZ		
C7216	QFV1HJ-474	FILM CAPACITOR	•47MF 5% 50V		
C7217	QCS11HJ-680	C. CAPACITOR	68PF 5% 50V		
C7218	QCBB1HK-101Y	C. CAPACITOR	FTZ		
C7219	QE61AM-227Z	E. CAPACITOR	220MF 20% 10V		
C7220	QCBB1HK-151Y	C. CAPACITOR	FTZ		
C7221	QFV1HJ-223	FILM CAPACITOR	•47MF 5% 50V		
C7222	QEKA1HM-105	E. CAPACITOR	1.0MF 20% 50V		
C7223	QE1H15-475Z	E. CAPACITOR	•15MF 5% 50V		
C7224	QTE1H15-475Z	E. CAPACITOR	150PF 20% 10V		
C7225	QFN41HJ-222	M. CAPACITOR	2200PF 5% 50V		
C7226	QCBB1HK-151Y	C. CAPACITOR	FTZ		
C7227	QEKA1CM-226	E. CAPACITOR	1.0MF 20% 50V		
C7228	QE1H15-475Z	E. CAPACITOR	•15MF 5% 50V		
C7229	QTE1H15-475Z	E. CAPACITOR	150PF 20% 10V		
C7230	QFV1HJ-222	M. CAPACITOR	2200PF 5% 50V		
C7231	QCBB1HK-151Y	C. CAPACITOR	FTZ		
C7232	QEKA1CM-226	E. CAPACITOR	1.0MF 20% 50V		
C7233	QE1H15-475Z	E. CAPACITOR	•15MF 5% 50V		
C7234	QTE1H15-475Z	E. CAPACITOR	150PF 20% 10V		
C7235	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		
C7236	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7237	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7238	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7239	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7240	QE61AM-1072M	E. CAPACITOR	22MF 20% 16V		
C7241	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7242	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7243	QEKA1HM-224	E. CAPACITOR	100MF 20% 10V		
C7244	QEKA1HM-224	E. CAPACITOR	22MF 20% 16V		
C7245	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		
C7246	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7247	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7248	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7249	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7250	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7251	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7252	QEKA1HM-102Y	C. CAPACITOR	1000PF 10% 50V		
C7253	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7254	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7255	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7256	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7257	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7258	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7259	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7260	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7261	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7262	QEKA1HM-102Y	C. CAPACITOR	1000PF 10% 50V		
C7263	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7264	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7265	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7266	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7267	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7268	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7269	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7270	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7271	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7272	QEKA1HM-102Y	C. CAPACITOR	1000PF 10% 50V		
C7273	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7274	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7275	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7276	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7277	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7278	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7279	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7280	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7281	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7282	QEKA1HM-102Y	C. CAPACITOR	1000PF 10% 50V		
C7283	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7284	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7285	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7286	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7287	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7288	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7289	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7290	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7291	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7292	QEKA1HM-102Y	C. CAPACITOR	1000PF 10% 50V		
C7293	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V		
C7294	QE61AM-1072M	E. CAPACITOR	150MF 20% 10V		
C7295	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7296	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7297	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7298	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7299	QEKA1CM-226	E. CAPACITOR	100MF 20% 10V		
C7300	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		
C7301	QE61HM-475Z	E. CAPACITOR	6.7MF 20% 50V		
C7310	QE61HM-475Z	E. CAPACITOR	4.7MF 20% 50V		
C7311	QE61HM-475Z	E. CAPACITOR	10MF 20% 10V		
C7312	QE61HM-475Z	E. CAPACITOR	10MF 20% 10V		
C7313	QE61AM-1072M	E. CAPACITOR	100MF 20% 10V		
C7314	QEKA1CM-475Z	E. CAPACITOR	4.7MF 20% 50V		
C7315	QEKA1HM-102Y	E. CAPACITOR	1.0MF 20% 50V		
C7316	QE61CM-226	E. CAPACITOR	22MF 20% 16V		
C7317	QC11EM-223V	C. CAPACITOR	1.0MF 20% 50V		
C7318	QC11EM-223V	C. CAPACITOR	22MF 20% 16V		
C7319	QEKA1CM-226	E. CAPACITOR	22MF 20% 16V		

PARTS NO.		PARTS NAME		REMARKS		SUFFIX		BLOCK NO.	
A	REF.	PARTS NO.	PARTS NAME	A	REF.	PARTS NO.	PARTS NAME	A	REF.
		C7320	GFEV41HJ-224	FILM CAPACITOR	-22MF 5% 50V	K7303	VGZ0048-009		SUFFIX X
		C7321	GFEV41HJ-104ZM	FILM CAPACITOR	-10MF 5% 50V	K7304	VQZ0048-009		
		C7324	05K11CM-226	E. CAPACITOR	-10MF 20% 16V	LF102	EFC0101-010		
		C7326	QCB11HK-471Y	E. CAPACITOR	470PF 10% 50V	LF202	EFO101-010		
		A C7327	QCB11HK-471Y	C. CAPACITOR	6800MF 20% 25V	L7001	VQP0018-070		
		A C7301	QETM1EM-688	E. CAPACITOR	220PF 10% 50V	L7002	VQP0018-470		
		C7902	QCC11EM-103V	C. CAPACITOR	-010MF 20% 25V	L7003	VQP0018-470		
		C7903	QCC11EM-226	E. CAPACITOR	22MF 20% 16V	L7004	VQP0018-221		
		C7904	QEK11CM-226	E. CAPACITOR	-10MF 20% 25V	L7005	VQP0028-221Z		
		C7905	QCC11EM-104V	E. CAPACITOR	-10MF 20% 16V	L7101	VQP0018-470		
		C7906	QEKA11CM-106	E. CAPACITOR	4.7MF 20% 50V	L7102	VQP0018-4R7		
		C7907	QEK61HM-475Z	E. CAPACITOR	100PF 10% 50V	L7103	VQP0018-4R7		
		C7908	QCB11HK-101Y	C. CAPACITOR	100PF 10% 50V	L7201	VQP0018-470		
		C7909	QET41EM-107	E. CAPACITOR	100MF 20% 25V	L7202	VQP0018-4R7		
		C7910	QEK61HM-475Z	E. CAPACITOR	4.7MF 20% 50V	L7203	VQP0018-4R7		
		C7911	QEK61HAM-107ZM	E. CAPACITOR	100MF 20% 10V	L7301	VQP0018-101		
		C7912	QET41EM-107	E. CAPACITOR	100MF 20% 25V	L7302	VQP0018-4R7		
		D7005	1SS133	SI DIODE		L7901	QL28AK-11		
		D7006	1SS133	SI DIODE		Q7001	2SC2668(Q)		
		D7007	1SS133	SI DIODE		Q7002	2SC2668(Q)		
		D7008	M724.7JB	ZENER DIODE		Q7003	DTA114TS		
		D7009	1SS133	SI DIODE		Q7004	2SC2785		
		D7011	1SS133	SI DIODE		Q7005	DTC114TSA-T		
		D7301	RB721Q	DIODE		Q7006	DTC114TSA-T		
		D7302	RB721Q	DIODE		Q7007	2SC2785		
		D7303	1SS133	SI DIODE		Q7008	DTC114TSA-T		
		D7305	1SS133	SI DIODE		Q7009	DTA114TS		
		D7306	1SS133	SI DIODE		Q7100	2SC2785		
		D7307	1SS133	SI DIODE		Q7101	2SC2785		
		D7309	SLR-325MCT31	LED		Q7102	2SD2144S(QW)		
		D7901	1SS133	SI DIODE		Q7104	2SK105(E, F, H)		
		D7902	MT210QAT-77	ZENER DIODE		Q7105	2SC2001(LL, K)		
		D7903	M724.21B	ZENER DIODE		Q7106	2SC2001(LL, K)		
		D7904	M727.7JA	Z-DIODE		Q7107	2SD2144S(QW)		
		D7905	RB100A	DIODE		Q7201	2SC2785		
		D7906	M727.5JA	Z-DIODE		Q7202	2SD2144S(QW)		
		D7907	1SS133	SI DIODE		Q7301	DTC114TSA-T		
		D7908	1SS133	SI DIODE		Q7305	SD2144S(QW)		
		D7909	M727.9JB	ZENER DIODE		Q7704	2SK105(E, F, H)		
		D7910	1SS133	SI DIODE		Q7705	2SC2001(LL, K)		
		D7911	1SS133	SI DIODE		Q7706	2SC2001(LL, K)		
		D7912	1SS133	SI DIODE		Q7707	2SD2144S(QW)		
		D7913	1SS133	SI DIODE		Q77301	DTA114TS		
		IC302	BA152.8N	IC		Q77305	2SA1175		
		IC303	BH3854AS	IC		Q77306	DTC114TSA-T		
		IC304	BA152.8N	IC		Q77307	2SB1565(E, F)		
		IC305	BA152.8N	IC		Q77901	2SA1175		
		IC306	VC4580L	IC		Q77903	DTC114TSA-T		
		IC701	MN101C03AJB	IC		Q77904	DTA114TS		
		IC702	TAB419S	IC		Q77905	2SC2785		
		IC901	UPC78106J	IC		Q77906	2SC2785		
		J7301	QNS0014-001	JACK		Q77907	2SA1359(OY)		
		K7001	VQZ0048-009	INDUCTOR		Q77908	2SC2785		
		K7002	VQZ0048-009	INDUCTOR		Q77909	2SA924(Q, R)		
		K7004	VQZ0048-009	INDUCTOR		Q77910	2SC2785		
		K7301	VQZ0048-009	INDUCTOR		Q77911	DTC114TSA-T		
		K7302	VQZ0048-009	INDUCTOR		Q77912	2SA1175		

REF.		PARTS NO.	PARTS NAME	REMARKS	SUPPLIX	BLOCK NO. 03111111
R7057	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R7058	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W			
R7059	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7060	QRD161J-672	CARBON RESISTOR	4.7K 5% 1/6W			
R7061	QRD161J-351	CARBON RESISTOR	330 5% 1/6W			
R7062	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7063	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R7064	QRD161J-151	CARBON RESISTOR	150 5% 1/6W			
R7065	QRD161J-100	CARBON RESISTOR	10 5% 1/6W			
R7066	QRD161J-183	CARBON RESISTOR	1.8K 5% 1/6W			
R7067	QRD161J-183	CARBON RESISTOR	1.8K 5% 1/6W			
R7068	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W			
R7069	QRD161J-723	CARBON RESISTOR	47K 5% 1/6W			
R7070	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R7072	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R7073	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7074	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7075	QRD161J-100	CARBON RESISTOR	10 5% 1/6W			
R7101	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7102	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W			
R7103	QRD161J-622	CARBON RESISTOR	6.2K 5% 1/6W			
R7104	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W			
R7106	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W			
R7107	QRD161J-102	CARBON RESISTOR	FT2			
R7109	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R7110	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W			
R7111	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R7112	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R7113	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R7114	QRD161J-123	CARBON RESISTOR	1.2K 5% 1/6W			
R7115	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7116	QRD161J-220	CARBON RESISTOR	2.2K 5% 1/6W			
R7117	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R7118	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W			
R7119	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7120	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R7121	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W			
R7122	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W			
R7123	QRD161J-911	CARBON RESISTOR	910 5% 1/6W			
R7124	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W			
R7125	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W			
R7126	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R7127	QRD161J-471	CARBON RESISTOR	4.7K 5% 1/6W			
R7128	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R7129	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W			
R7130	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W			
R7131	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R7132	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W			
R7134	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W			
R7135	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7136	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7137	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7201	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7202	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W			
R7203	QRD161J-622	CARBON RESISTOR	6.2K 5% 1/6W			

BLOCK NO. 03				S U P F I X
A	REF.	PARTS NO.	PARTS NAME	REMARKS
	Q7913	2SC2785	TRANSISTOR	
	Q7914	DTA143TSP	TRANSISTOR	
	Q7915	2SA1175	TRANSISTOR	
	Q7916	DTA114TS	D-TRANSISTOR	
R7001	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7002	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7003	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7004	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7005	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7006	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7007	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7008	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7009	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7010	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7011	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7012	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7013	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7014	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7015	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7016	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7017	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7018	GRD161J-335	CARBON RESISTOR	33K 5% 1/6W	
R7019	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7020	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7021	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7022	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7023	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7024	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7030	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7025	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7026	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7027	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7028	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7029	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7030	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7031	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7032	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7033	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7034	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7035	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7036	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7037	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7038	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7039	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7040	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7041	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7042	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7043	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7044	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7045	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R7046	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R7047	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R7053	GRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R7054	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R7055	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R7056	GRD161J-681	CARBON RESISTOR	680 5% 1/6W	

BLOCK NO. 03111111				BLOCK NO. 03111111	
REF.	PART'S NO.	PART'S NAME	REMARKS	SUFFIX	
R7204	GRD161J-283	CARBON RESISTOR 68K 5% 1/6W			
R7206	GRD161J-253	CARBON RESISTOR 75K 5% 1/6W			
R7207	GRD161J-102	CARBON RESISTOR FTZ			
R7209	GRD161J-562	CARBON RESISTOR 5.6K 5% 1/6W			
R7210	GRD161J-272	CARBON RESISTOR 2.7K 5% 1/6W			
R7211	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			
R7212	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W			
R7213	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7214	GRD161J-123	CARBON RESISTOR 12K 5% 1/6W			
R7215	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7216	GRD161J-220	CARBON RESISTOR 22.5K 5% 1/6W			
R7217	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7218	GRD161J-333	CARBON RESISTOR 3.3K 5% 1/6W			
R7219	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7220	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W			
R7221	GRD161J-133	CARBON RESISTOR 15K 5% 1/6W			
R7222	GRD161J-105	CARBON RESISTOR 1.0M 5% 1/6W			
R7223	GRD161J-911	CARBON RESISTOR 910 5% 1/6W			
R7224	GRD161J-334	CARBON RESISTOR 330K 5% 1/6W			
R7225	GRD161J-533	CARBON RESISTOR 56K 5% 1/6W			
R7226	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			
R7227	GRD161J-471	CARBON RESISTOR 470 5% 1/6W			
R7228	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7229	GRD161J-475	CARBON RESISTOR 4.7M 5% 1/6W			
R7230	GRD161J-475	CARBON RESISTOR 4.7M 5% 1/6W			
R7231	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W			
R7232	GRD161J-332	CARBON RESISTOR 3.3K 5% 1/6W			
R7234	GRD161J-663	CARBON RESISTOR 56K 5% 1/6W			
R7235	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7236	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			
R7237	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			
R7301	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7302	GRD161J-393	CARBON RESISTOR 39K 5% 1/6W			
R7303	GRD161J-593	CARBON RESISTOR 39K 5% 1/6W			
R7304	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
R7305	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7306	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
R7307	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7308	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			
R7310	GRD161J-123	CARBON RESISTOR 12K 5% 1/6W			
R7311	GRD161J-223	CARBON RESISTOR 22K 5% 1/6W			
R7312	GRD161J-593	CARBON RESISTOR 39K 5% 1/6W			
R7313	GRD161J-473	CARBON RESISTOR 4.7K 5% 1/6W			
R7314	GRD161J-125	CARBON RESISTOR 1.2M 5% 1/6W			
R7318	GRD161J-822	CARBON RESISTOR 8.2K 5% 1/6W			
R7319	GRD161J-67	CARBON RESISTOR 3.3K 5% 1/6W			
R7320	GRD161J-332	CARBON RESISTOR 2.2K 5% 1/6W			
R7321	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7322	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R7323	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
R7324	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
R7325	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
R7326	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
R7327	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			

CD Servo Control Board

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [RELLL]
C	604	QEKS1AM-107	E-CAPACITOR	100MF 20% 10V		
C	605	QET41EM-106	E-CAPACITOR	10MF 20% 25V		
C	606	QCBB1HK-102Y	C-CAPACITOR	1000PF 10% 50V		
C	607	QCBB1HK-102Y	C-CAPACITOR	1.0MF 20% 50V		
C	608	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V		
C	609	QCBB1HK-101Y	C-CAPACITOR	100PF 10% 50V		
C	610	QFLC1HJ-2732M	M-CAPACITOR	0.027MF 5% 50V		
C	611	QCXB1CM-222Y	C-CAPACITOR	2000PF 20% 16V		
C	612	QCXB1CM-103Y	C-CAPACITOR	0.010MF 20% 16V		
C	613	QCXB1HJ-331Y	C-CAPACITOR	330PF 10% 50V		
C	614	QFLC1HJ-1042M	M-CAPACITOR	0.027MF 5% 50V		
C	615	GCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	616	GCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	617	GCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	618	QCXB1CM-222Y	C-CAPACITOR	2200PF 20% 16V		
C	619	QCBB1HK-271Y	C-CAPACITOR	270PF 10% 50V		
C	620	QCS11HJ-470	C-CAPACITOR	47PF 5% 50V		
C	621	QCBB1HK-821Y	C-CAPACITOR	820PF 10% 50V		
C	622	QET41AM-476	E-CAPACITOR	47MF 20% 10V		
C	623	QFLC1HJ-1047M	M-CAPACITOR	0.10MF 5% 50V		
C	628	QCC11EM-473V	C-CAPACITOR	0.047MF 20% 25V		
C	629	QET41AM-407	E-CAPACITOR	100MF 20% 10V		
C	631	QET41AM-477	E-CAPACITOR	470MF 20% 10V		
C	632	QKS1AM-107	E-CAPACITOR	100MF 20% 10V		
C	651	QCS11HJ-120	C-CAPACITOR	12PF 5% 50V		
C	652	QCS11HJ-130	C-CAPACITOR	15PF 5% 50V		
C	653	QCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	655	QCC11EM-473V	C-CAPACITOR	0.047MF 20% 25V		
C	661	QCBB1HK-471Y	C-CAPACITOR	70PF 10% 50V		
C	662	GCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	663	QFLC1HJ-2232M	M-CAPACITOR	0.022MF 5% 50V		
C	664	GCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	665	QF71HJ-3342M	FILM CAPACITOR	33MF 5% 50V		
C	671	QCXB1CM-222Y	C-CAPACITOR	2200PF 20% 16V		
C	672	QCXB1CM-222Y	C-CAPACITOR	2200PF 20% 16V		
C	673	QET41AM-227	E-CAPACITOR	220MF 20% 10V		
C	674	QCHB1EZ-223	C-CAPACITOR	0.022MF +80:-20%		
C	675	QCBB1HK-102Y	C-CAPACITOR	AG-DG		
C	676	QCBB1HK-102Y	C-CAPACITOR	AG-DG		
C	691	QCBB1HK-151Y	C-CAPACITOR	DENGEN NOISE		
C	692	QCBB1HK-151Y	C-CAPACITOR	DENGEN NOISE		
C	693	QCBB1HK-151Y	C-CAPACITOR	DENGEN NOISE		
C	694	QCBB1HK-151Y	C-CAPACITOR	DENGEN NOISE		
CN601	QG11008F1-15	15PIN CONNECTOR	TO RF			
CN602	EMV5109-000A	6P PLUG ASSY	TO MOTOR			
CN603	VMC0163-RO7	CONNECTOR	TO AUDIO			
CN604	VMC0163-R11	CONNECTOR	TO MICON			
CN605	VMCC041-003	CONNECTOR	TO DIGITAL OUT			
D	661	ISS133	SI DIODE			
I	6601	AN8806SB	IC	RF AMP		
I	6602	BA6597FP	IC	DRIVER		
I	6603	MN35510	IC	1CHIP PROCESSER		
Q	631	2SA552(L,K)	TRANSISTOR	12K 5% 1/6W		
R	601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		

A	REF.	PARTS NO.	PARTS NAME	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO. [RELLL]	SUFFIX
				R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
				R 605	QRD167J-134	C-RESISTOR	130K 5% 1/6W	
				R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
				R 609	QRD161J-273	C-RESISTOR	27K 5% 1/6W	
				R 610	QRD161J-114	C-RESISTOR	110K 5% 1/6W	
				R 612	QRD161J-103	CARBON RESISTOR	150K 5% 1/6W	
				R 613	QRD161J-121	CARBON RESISTOR	10K 5% 1/6W	
				R 614	QRD161J-100	CARBON RESISTOR	10K 5% 1/6W	
				R 615	QRD161J-120	CARBON RESISTOR	12.5% 1/6W	
				R 616	QRD161J-910Y	CARBON RESISTOR	91.5% 1/6W	
				R 621	QRD161J-330	CARBON RESISTOR	33.5% 1/6W	
				R 622	QRD161J-330	CARBON RESISTOR	33.5% 1/6W	
				R 623	QRD161J-330	CARBON RESISTOR	33.5% 1/6W	
				R 631	QRD161J-331	CARBON RESISTOR	3.50.5% 1/6W	
				R 632	QRD161J-101	CARBON RESISTOR	100.5% 1/6W	
				R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
				R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
				R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
				R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
				R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
				R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
				R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
				R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
				R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
				R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
				R 653	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
				R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
				R 655	QRD161J-471	CARBON RESISTOR	4.70.5% 1/6W	
				R 656	QRD161J-471	CARBON RESISTOR	4.70.5% 1/6W	
				R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
				R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
				R 664	QRD161J-681	CARBON RESISTOR	680.5% 1/6W	
				R 665	QRD161J-220	CARBON RESISTOR	22.5% 1/6W	
				R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
				R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
				X 651	VX5016-934V	CRYSTAL	16.9344MHZ	

Cassette Mechanism Board

14. Packing

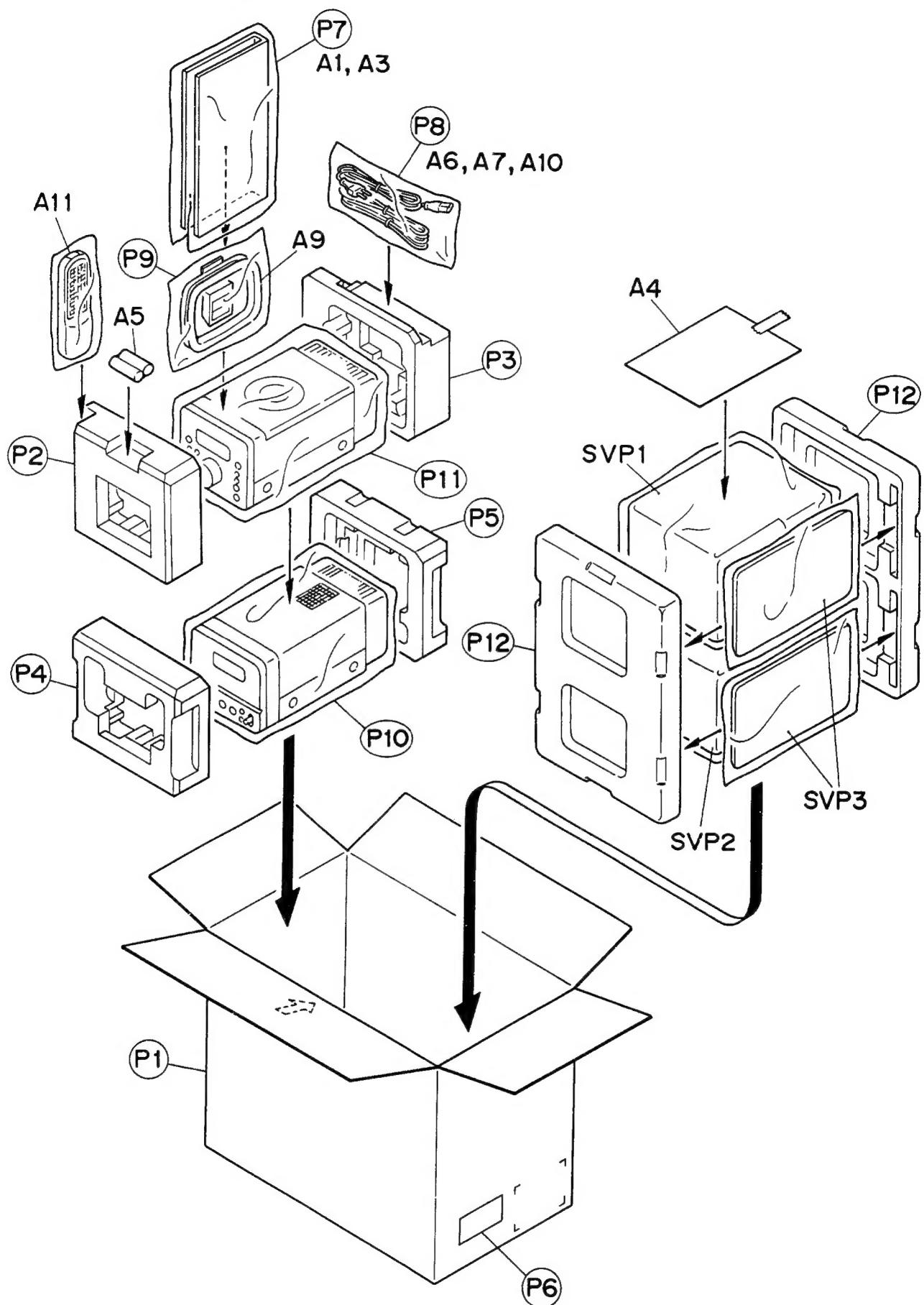


Fig. 14-1

■ Packing Parts List

BLOCK NO. M5MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY	SUFFIX	CLR
	P 1	VPC9306-E001	CARTON		1		
	P 2	VPH1708-201	CUSHION(CD/F)		1		
	P 3	VPH1708-202	CUSHION(CD/R)		1		
	P 4	VPH1708-204	CUSHION(DECK/F)		1		
	P 5	VPH1708-203	CUSHION(DECK/R)		1		
	P 6	-----	CARTON LABEL		1		
	P 7	VPE3005-007	POLY BAG	FOR INST BOOK	1		
	P 8	QPGA015-03503	POLY BAG	FOR POWER CORD	1		
	P 9	VPE3005-042	POLY BAG	AM LOOP ANT	1		
	P 10	VPE3026-007	POLY BAG	DICK SET	1		
	P 11	VPE3026-007	POLY BAG	TU/CD SET	1		
	P 12	VPH3232-001	SPEAKER CUSHION		2		

■ Accessories

BLOCK NO. M6MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY	SUFFIX	CLR
	A 1	VNN9306-271E	INSTRUCTIONS		1	G	
		VNN9306-251E	INSTRUCTIONS		1	E	
		VNN9306-261E	INSTRUCTIONS		1		
	A 3	BT-54006-1	WARRANTY CARD		1	B	
	A 4	VND5138-001	CAUTION SHEET		1		
	A 5	R6S-2S	BATTERY		2		
	A 6	QMP39F0-183	POWER CORD		1		
	A 7	EWP503-001	ANT.WIRE		1		
	A 9	EQB4001-015	AM LOOP ANT		1		
	A 10	VMP0093-002	SPEAKER CORD		2		
	A 11	VGR0059-101	REMOCON UNIT	RM-RXUD88	1		
SVP 1		UXD88K-SPBOX-L	SPEAKER BOX(L)	SERVICE PARTS	1	E	
SVP 2		UXD88HK-SPBOX-L	SPEAKER BOX(L)	SERVICE PARTS	1	EN,G	
SVP 2		UXD88HK-SPBOX-R	SPEAKER BOX(R)	SERVICE PARTS	1	EN,G	
SVP 3		UXD88K-SPBOX-R	SPEAKER BOX(R)	SERVICE PARTS	1	E	
	SVP 3	VYTB432-001	SARAN NET ASSY	SERVICE PARTS	2		